

**GW -** 173

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**  
2005-1994

THE SANTA FE  
**NEW MEXICAN**  
Founded 1849

RECEIVED  
JUN 24 2005  
OIL CONSERVATION  
DIVISION

NM OIL CONSERVATION DIV  
*Attn: Ed Martin*

1220 ST. FRANCIS DR

SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689

AD NUMBER: 00125212 ACCOUNT: 00002212

LEGAL NO: 77309 P.O. #: 05-199-050185

356 LINES 1 TIME(S) 156.64

AFFIDAVIT: 5.50

TAX: 11.86

TOTAL: 174.00

AFFIDAVIT OF PUBLICATION

*OK to pay  
Ed Martin  
6-28-05*

STATE OF NEW MEXICO  
COUNTY OF SANTA FE

I, B. Perner, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 77309 a copy of which is hereto attached was published in said newspaper 1 day(s) between 06/23/2005 and 06/23/2005 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 23rd day of June, 2005 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/ *B Perner*  
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 23rd day of June, 2005

Notary *Laura S. Harding*

Commission Expires: *11/23/07*

**DEPARTMENT  
OIL CONSERVATION  
DIVISION**

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge permit application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-325) Transwestern Pipeline Company, Mr. John Steenberg, Division Environmental Specialist, 4001 Indian School Road, NE, Suite 250, Albuquerque, NM 87110, has submitted a discharge permit application for their Gallup Compressor Station, located in Section 8, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico. The total discharge will be about 1 gallon/day. This fluid will consist of oil and water and will be discharged into closed top storage tanks on site. The wastewater will then be disposed of at an OCD-approved facility. Groundwater most likely to be affected by a spill, leak or accidental discharge to the surface is at a depth of approximately 1,200 feet with a total dissolved solids concentration of approximately 3,110 mg/l. The discharge permit addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-174) - El Paso Natural Gas Company, Mr. Richard Du-

arte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87120 has submitted a discharge plan renewal application for the El Paso Natural Gas Company White Rock Compressor Station located in the NE/4 of Section 15, township 23 North, Range 14 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1,000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 230 feet to 480 feet with estimated total dissolved solids concentration ranging from approximately 1600 mg/l to 7600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-173) - El Paso Natural Gas Company, Mr. Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87120 has submitted a discharge plan renewal application for the El Paso Natural Gas Company Gallup Compressor Station located in the NE/4 of Section 9, township 19 North, Range 17 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids con-

centration of 1,000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 317 feet to 810 feet with estimated total dissolved solids concentration ranging from approximately 425 mg/l to 593 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will ap-

prove or disapprove the permit based on the information available. If a public hearing is held, the Director will approve the permit based on the information in the permit and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of June 2005.

STATE OF  
NEW MEXICO  
OIL CONSERVATION  
DIVISION

SEAL

MARK FEISMIRE, P.E.,  
Director

Legal #77309  
Pub. June 23, 2005

**NOTICE OF  
PUBLICATION**

**STATE OF  
NEW MEXICO  
ENERGY, MINERALS  
AND NATURAL  
RESOURCES**

# AFFIDAVIT OF PUBLICATION

Ad No. 51889

## STATE OF NEW MEXICO County of San Juan:

CONNIE PRUITT, being duly sworn says:  
That she is the ADVERTISING MANAGER of  
THE DAILY TIMES, a daily newspaper of  
general circulation published in English at  
Farmington, said county and state, and that  
the hereto attached Legal Notice was  
published in a regular and entire issue of the  
said DAILY TIMES, a daily newspaper duly  
qualified for the purpose within the meaning of  
Chapter 167 of the 1937 Session Laws of the  
State of New Mexico for publication and  
appeared in the Internet at The Daily Times  
web site on the following day(s):

Wednesday, June 22, 2005.

And the cost of the publication is \$92.08.

*Connie Pruitt*

ON 6/22/05 CONNIE PRUITT  
appeared before me, whom I know personally  
to be the person who signed the above  
document.

*Wynell Corey*  
My Commission Expires November 17, 2008.



## COPY OF PUBLICATION

918 Legal

### NOTICE OF PUBLICATION

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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If no hearing is held, the Director will approve or disapprove the permit based on the information available. If a public hearing is held, the Director will approve the permit based on the information in the permit and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of June 2005.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

SEAL

MARK FEISMIRE, P.E., Director

Legal No. 51889 published in The Daily Times, Farmington, New Mexico on Wednesday, June 22, 2005.

## NOTICE OF PUBLICATION

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 23rd day of May 2005.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

SEAL

MARK FEISMIRE, P.E., Director



OIL CONSERVATION DIV.

01 SEP -6 AM 10:46

September 5, 2001

Edwin Martin, Environmental Engineer  
NMOCD – Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Overnight Mail  
FedEx Air Bill No. 7916 5225 5113

GW-173

**Re: Discharge Plan GW-173 Line Testing; El Paso Natural Gas Company's Gallup  
Compressor, McKinley County, NM**

Dear Mr. Martin:

Enclosed please find the testing report for the underground lines at Gallup Station. The report demonstrates that the lines were in satisfactory condition with no leaks.

Please contact me at (505) 831-7763 if you have any questions regarding this report.

Sincerely,

Richard Duarte  
Principal Environmental Engineer  
Pipelines West Environmental Department

Enclosure

**Copy (with enclosure):**

Denny G. Foust  
NMOCD – Environmental Bureau  
1000 Rio Brazos Street  
Aztec, NM 87410



August 29, 2001  
AMEC Project No. 1517000076

Mr. Richard Duarte  
El Paso Natural Gas  
3801 Atrisco Boulevard, NW  
Albuquerque, NM 87120

**RE: Drain Line Testing  
EPNG Gallup Station**

Dear Mr. Duarte,

AMEC Earth & Environmental, Inc. is pleased to provide El Paso Natural Gas (EPNG) with results of hydrostatic testing for the below ground, non-pressurized, process and wastewater drain system at the Gallup Compressor Station located near Newcomb, New Mexico. Only below ground, non-pressurized process and wastewater lines were tested as proposed to New Mexico Oil Conservation Division (NMOCD) by EPNG, owners and operators of the site.

Notice to proceed for this project was granted by Mr. Donald Campbell, Manager with El Paso Natural Gas on August 24, 2001. AMEC mobilized to the site on August 24, 2001 and began line testing. The work was completed on August 24, 2001. AMEC's on-site crew consisted of Bruce Hare (Project Superintendent) and Morgan Killion (Site Supervisor).

Procedures for testing the drain lines at this facility consisted of plugging drain lines in the auxiliary building to the sump, and all four lines extending from the "C" turbine to the sump. The sump was approximately 10 feet deep and was considered by AMEC to be a confined space. The oxygen level along the lower explosive level was measured in the confined space prior to entry. A confined space entry permit was completed by AMEC and authorized by AMEC and EPNG personnel. The underground pipelines carrying process or wastewater were isolated. Each isolated system was filled with clean water and air was removed. A water-filled riser of sufficient height was used to provide a minimum of 3 pounds per square inch above normal operating pressure (all risers were at least 8-feet in height). A system was considered passing or non-leaking when the height of the water column held steady for a period of 60 minutes. AMEC did not discover any leaks in the system. A final passing hydrostatic test was completed on the Gallup Station non-pressurized drain lines on August 24, 2001.

In keeping with El Paso Field Services policy, along with AMEC's own internal Health and Safety policies, all on-site employees participated and attended daily safety meetings. Safety meeting records and confined-space entry permits are on file at AMEC's Farmington, New Mexico location.

El Paso Natural Gas  
Gallup Station – Drain Line Testing  
August 29, 2001



AMEC appreciates the opportunity to perform these services at the Gallup Plant for EPNG. Should you have any questions, please feel free to contact our office at (505) 327-7928 or toll free at (888) 840-2472.

Respectfully submitted,  
**AMEC EARTH & ENVIRONMENTAL, INC.**

A handwritten signature in black ink, appearing to read "Don Fernald", written over a horizontal line.

Don Fernald  
Program Manager

Attachment: Summary of Line Testing





Process Safety Management, Mechanical Integrity  
**PRESSURE TEST REPORT**

|  |                             |  |                          |   |  |
|--|-----------------------------|--|--------------------------|---|--|
| WORK ORDER NO.   |                             | 1517000076   |                          | M.O.C.R. NO.  |  |
| EPNG Work request No. Dua 01-0823 FACILITY DESCRIPTION - Gallup Compressor Station   |                             |  |                          |   |  |
| NAME OF FACILITY:  |                             | AREA:  |                          | P & ID Number(s) (attach copies):   |  |
| EPNG Gallup Station  |                             | Drain system   |                          |   |  |
| EQUIPMENT TYPE:  |                             |  |                          | Equipment ID Number(s):   |  |
| <input type="checkbox"/> VESSEL<br><input checked="" type="checkbox"/> PIPE<br><input type="checkbox"/> HOT TAP<br><input type="checkbox"/> TANK<br><input type="checkbox"/> OTHER |                             |  |                          |   |  |
| DESCRIPTION OF TEST (e.g., vessel / equipment / line ID description, including system boundaries, insulated or un-insulated, etc.)   |                             |  |                          |   |  |
| Hydro Open Drain System  |                             |  |                          |   |  |
| TEST PARAMETERS AND SPECIFICATIONS   |                             |  |                          |   |  |
| TYPE OF TEST: <input checked="" type="checkbox"/> HYDROSTATIC <input checked="" type="checkbox"/> LEAK <input checked="" type="checkbox"/> OPERABILITY                             |                             |  |                          |   |  |
| REASON FOR TEST: <input type="checkbox"/> NEW <input type="checkbox"/> SUITABILITY FOR SERVICE <input type="checkbox"/> REPAIR <input checked="" type="checkbox"/> RE-TEST         |                             |  |                          |   |  |
| MAXIMUM ALLOWABLE WORKING PRESSURE:  |                             | MAXIMUM PIPING, EQUIPMENT, OR COMPONENT OPERATING TEMPERATURE, °F:   |                          | MINIMUM PIPING, EQUIPMENT OR COMPONENT DESIGN TEMPERATURE, °F:  |  |
| 0 psi  |                             | N/A  |                          |   |  |
| TEST MEDIUM:   |                             | MINIMUM PIPING, EQUIPMENT OR COMPONENT TEMPERATURE, °F:              |                          | HIGH POINT MINIMUM PRESSURE, PSIG:  |  |
| water  |                             |  |                          | 3451-84" WC   |  |
| REQUIRED TEST PRESSURE (1.5 X MAWP) PSIG:  |                             | REQUIRED TEST DURATION (un-insulated = 1 hour, insulated = 2 hours): |                          | PRELIMINARY LEAK CHECK PRESSURE AT LOW POINT (Minimum 0.50 - maximum 0.80 of required test pressure): |  |
|  |                             | 30 min   |                          |   |  |
|  |                             |  |                          | MAXIMUM PRESSURIZATION RATE (0.10 X Required Test Pressure / minute):                                 |  |
|  |                             |  |                          | psig / minute   |  |
|  |                             |  |                          | MAXIMUM DEPRESSURIZATION RATE (0.10 X Required Test Pressure / minute):                               |  |
|  |                             |  |                          | psig / minute   |  |
| TEST RESULTS   |                             |  |                          |   |  |
| TEST START: DATE:  |                             | TEST COMPLETED: DATE:  |                          | WEATHER CONDITIONS:   |  |
| 8-24-01  |                             | 8-24-01  |                          | Clear - Warm  |  |
| COMMENTS:  |                             |  |                          |   |  |
| TEST ACTIVITY LOG<br>(record the following information each 15 minutes from initial pressurization to de-pressurization)   |                             |  |                          |   |  |
| TIME   | DEAD WEIGHT PRESSURE (psig) | CHART RECORDER PRESSURE (psig)                                       | AMBIENT TEMPERATURE (°F) | REMARKS   |  |
| on off   |                             |  |                          |   |  |
| 1:10P 1:40P 3+psi  | 92" WC                      |  |                          | Auxiliary Building Area To Sump   |  |
| 2:40P 3:10P 3+psi  | 106" WC                     |  |                          | NW Side "C" Turbine To Sump   |  |
| 3:50P 4:20P 3+psi  | 88" WC                      |  |                          | SW Side "C" Turbine To Sump   |  |
| 4:30P 5:00P 3+psi  | 87" WC                      |  |                          | NE Side "C" Turbine To Sump   |  |
| 5:13P 5:45P 3+psi  | 88" WC                      |  |                          | SE Side "C" Turbine To Sump   |  |
| REVIEW AND APPROVALS   |                             |  |                          |   |  |
| WITNESSED BY (Operations):   |                             | DATE:  |                          | TEST PERFORMED BY (Contractor and Representative):  |  |
| [Signature]  |                             | 08/24/01   |                          | AMEC Bruce Hare   |  |
| WITNESSED BY (ENGINEERING):  |                             | DATE:  |                          | TEST RESULTS REVIEWED AND APPROVED BY (API 510/570/653 Inspector):                                    |  |
|  |                             |  |                          |   |  |



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**Jennifer A. Salisbury**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

June 12, 2001

**CERTIFIED MAIL  
RETURN RECEIPT NO. 5357-7836**

Mr. Thomas P. Morgan  
Transmission Operations Vice President  
El Paso Natural Gas Co.  
P.O. Box 1492  
El Paso, TX 79978

**RE:** El Paso Natural Gas Co.  
Gallup Compressor Station  
Discharge Plan: GW-173

Dear Mr. Morgan:

On May 22, 2001, the New Mexico Oil Conservation Division inspected El Paso Natural Gas Company's Gallup Compressor Station near Gallup, New Mexico. This inspection was scheduled through Mr. Ricardo Duarte and I was accompanied on the inspection by Mr. Augustin Campos, an El Paso Natural Gas Co. employee. This inspection was conducted pursuant to the Oil Conservation Division Discharge Plan (GW-173) covering this facility. The Discharge Plan for the Gallup Station was renewed on January 6, 2001 and will expire on February 8, 2005. A copy of the inspection report is attached.

Generally, the site was up to par and the environmental safeguards in place at the station are adequate. However, one deficiency was noted that must be addressed by El Paso Natural Gas Company. Underground lines at the site are used to pipe wastewater to an above ground tank. These lines have not been pressure tested, to demonstrate mechanical integrity, since 1991. Per the conditions of the aforementioned discharge plan, all such lines must be tested at least annually.

| U.S. Postal Service<br>CERTIFIED MAIL RECEIPT<br>(Domestic Mail Only, No Insurance Coverage Provided) |    |
|---|----|
| OFFICIAL USE  |    |
| Postage   | \$ |
| Certified Fee   |    |
| Return Receipt Fee<br>(Endorsement Required)  |    |
| Restricted Delivery Fee<br>(Endorsement Required)   |    |
| Total Postage & Fees  | \$ |
| Sent To: <b>Thomas P. Morgan - EPNG</b>   |    |
| Street, Apt. No., or PO Box No.: <b>P.O. Box 1492</b>   |    |
| City, State, ZIP+4: <b>EL PASO, TX 79978</b>  |    |
| PS Form 3800, May 2000 See Reverse for Instructions   |    |

7000 1670 0012 5357 7836

NEW MEXICO 87502  
Postmark  
JUN 12 2001  
USPS  
GW-173 EM

Accordingly, these lines must be tested by **July 31, 2001**. Results of these tests must be forwarded to this office to arrive no later than **August 31, 2001**. El Paso Natural Gas Co. may use various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD.

If you have any questions concerning these requirements, call me at (505) 476-3492.

NEW MEXICO OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read 'Ed Martin', with a stylized flourish at the end.

Edwin E. Martin  
Environmental Engineering Specialist

cc: OCD Office-Aztec

**Martin, Ed**

---

**From:** Duarte, Ricardo [Ricardo.Duarte@ElPaso.com]  
**Sent:** Tuesday, May 15, 2001 10:04 AM  
**To:** Martyne Kieling (E-mail); Ed Martin (E-mail)  
**Subject:** EPNG's Belen Hydrostatic Testing: Change in Source water

Martyne and Ed:

EPNG has re-evaluated its use of river water (from the Rio Grande) for the source of water on the subject test. Apparently the heavy-silt content is a serious concern and thus EPNG has now made arrangements with the City of Belen to purchase 60,000-gallons per day for 8 days to acquire the total 480,000 gallons. At the present time, this is the only change to our proposed test procedures.

To revisit our proposal briefly, EPNG will still run a cleaning run and discharge that wash-water at the Gallup compressor station double-lined pond. Lastly, EPNG will anticipate that the final results will meet the NM Groundwater Standards prior to discharge on the land-surface as dust suppressant.

(For Ed Martin): Lastly, with this project update EPNG respectfully requests your approval to discharge the wash water (5,000 gallons) into the Gallup Station double-line pond. Reference the proposal and request sent to Ms. M. Kieling last week.

Please inform me if this email will suffice to update the project request or if I need to re-submit the change via a letter.

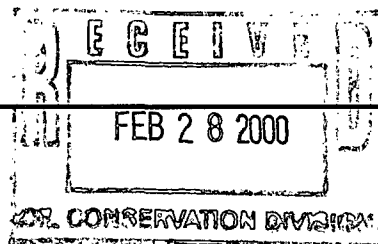
Thank you for your consideration,

Richard Duarte,  
Principal Environmental Engineer EPNG  
505 831-7763

\*\*\*\*\*  
This email and any files transmitted with it from the ElPaso Corporation are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.  
\*\*\*\*\*



February 24, 2000



Roger Anderson, Bureau Chief  
NMOCD - Environmental Bureau  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Certified Mail  
Return Receipt Requested  
P 412 249 533

**Re: Discharge Plan GW-173 Renewal; El Paso Natural Gas Company's Gallup  
Compressor, McKinley County, NM**

Dear Mr. Anderson:

Enclosed please find the signed Certification for the Discharge Plan at the subject facility. As per my discussions with you and your staff, EPNG has amended the completion date of the mechanical integrity for any underground process lines to July 28, 2000 (reference Condition No. 10). Accordingly, the previous date was marked out and the new date inserted.

Lastly, although the Navajo Nation EPA did not protest this Plan's renewal, it is EPNG's understanding that the issues of jurisdiction originally raised by the Navajo EPA when the permit was initially issued have not yet been resolved. Nonetheless, EPNG respectfully submits the enclosed Certification and will abide by the conditions of the Discharge Plan.

Please contact me at (505) 831-7763 if you have any questions regarding this Discharge Plan or if you wish to schedule a site inspection.

Sincerely,

Richard Duarte  
Principal Environmental Engineer  
Pipelines West Environment Department

Enclosure (original)

**Copy (with enclosure):**

Wayne Price, Engineer  
NMOCD - Environmental Bureau  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Mr. R. Anderson, NMOCD Environmental Bureau  
Gallup Station – Discharge Plan Renewal  
Page 2

**Blind Copy (w/ Discharge Plan Renewal documents):**

Donald W. Campbell  
Sandra D. Miller

File: Gallup Station – Wastewater  
R. Duarte's Chron. (w/out enclosures)



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

January 6, 2000

**CERTIFIED MAIL**

**RETURN RECEIPT NO. Z-142-564-933**

Mr. Thomas P. Morgan  
Transmission Operations Vice-President  
El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79978

**RE: Discharge Plan Renewal GW-173  
El Paso Natural Gas Company  
Gallup Compressor Station  
McKinley County, New Mexico**

Dear Mr. Morgan:

The ground water discharge plan renewal application GW-173 for the El Paso Natural Gas Company Gallup Compressor Station located in the NE/4 of Section 9, Township 19 North, Range 17 West, NMPM, McKinley County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 10 working days of receipt of this letter.**

The original discharge plan application was submitted on July 23, 1994 and approved February 8, 1995. The discharge plan renewal application, dated October 8, 1999, submitted pursuant to Sections 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals. The discharge plan is renewed pursuant to Sections 5101.A. and 3109.C. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve El Paso Natural Gas Company of liability should operations result in pollution of surface water, ground water, or the environment.

Please be advised that all exposed pits, including lined pits and open tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Mr. Thomas P. Morgan  
GW-173 Gallup Compressor Station  
January 6, 2000  
Page 2

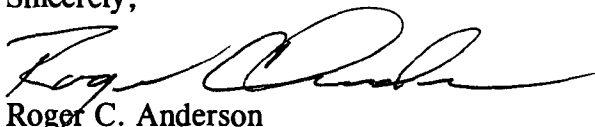
Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C., El Paso Natural Gas Company is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.G.4., this renewal plan is for a period of five years. This renewal will expire on **February 8, 2005**, and El Paso Natural Gas Company should submit an application in ample time before this date. Note that under Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit the results of an underground drainage testing program as a requirement for discharge plan.

The discharge plan renewal application for the El Paso Natural Gas Company Gallup Compressor Station is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$50. There is a renewal flat fee assessed for compressor stations with greater than 3000 horsepower is equal to one-half of the original flat fee or \$1,667.50. The OCD has received the filing fee and the required flat fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



Roger C. Anderson  
Chief, Environmental Bureau  
Oil Conservation Division

RCA/wjf  
Attachment

xc: OCD Aztec Office

Z 142 564 933 OCD

JF

US Postal Service  
Receipt for Certified Mail  
No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

|   |                  |
|---|------------------|
| Sent to   | <i>T. Morgan</i> |
| Street & Number   | <i>EPNG</i>      |
| Post Office, State, & ZIP Code                              | <i>EL PASO</i>   |
| Postage   | \$               |
| Certified Fee   | \$               |
| Special Delivery Fee  | \$               |
| Restricted Delivery Fee                                     | \$               |
| Return Receipt Showing to Whom & Date Delivered             |                  |
| Return Receipt Showing to Whom, Date, & Addressee's Address |                  |
| TOTAL Postage & Fees  | \$               |
| Postmark or Date  | <i>GW-173</i>    |

PS Form 3800, April 1995



ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-173  
EL PASO NATURAL GAS COMPANY  
GALLUP COMPRESSOR STATION  
DISCHARGE PLAN APPROVAL CONDITIONS  
(January 6, 2000)

1. Payment of Discharge Plan Fees: The \$50.00 filing fee and the required flat fee has been received by the OCD. There is a required flat fee equal to one-half of the original flat fee for compressor stations.
2. El Paso Natural Gas Company Commitments: El Paso Natural Gas Company will abide by all commitments submitted in the discharge plan renewal application dated October 8, 1999 and these conditions for approval.
3. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste characterization per 40 CFR Part 261.
4. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
5. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
6. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.
7. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
8. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

9. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.
10. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than December 31, 1999 and every 5 years, from tested date, thereafter. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
11. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
12. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.
13. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Aztec District Office.
14. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

15. Closure: The OCD will be notified when operations of the Gallup Compressor Station are discontinued for a period in excess of six months. Prior to closure of the Gallup Compressor Station the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
16. Certification: El Paso Natural Gas Company, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Natural Gas Company further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

EL PASO NATURAL GAS COMPANY

by \_\_\_\_\_  
Title

# The Santa Fe New Mexican

Since 1849 We Read You

NOV - 1 1999

NM OIL CONSERVATION DIVISION  
ATTN: LUPE SHERMAN  
2040 S. PACHECO STREET  
SANTA FE, NM 87505

AD NUMBER: 116061      ACCOUNT: 56689  
LEGAL NO: 66354      P.O.#: 00199000278  
237 LINES      1 time(s) at \$ 104.34  
AFFIDAVITS:      5.25  
TAX:      6.85  
TOTAL:      116.44

## AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO  
COUNTY OF SANTA FE

I, B. Rener being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #66354 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/28/1999 and 10/28/1999 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 28 day of October, 1999 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

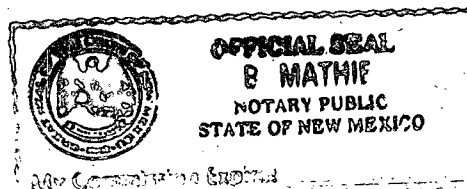
/S/

Betty Rener  
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this  
26 day of October A.D., 1999

Notary

Commission Expires



NOTICE OF  
PUBLICATION

STATE OF NEW MEXICO  
ENERGY, MINERALS  
AND NATURAL  
RESOURCES  
DEPARTMENT  
OIL CONSERVATION  
DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-173) - El Paso Natural Gas Company, Mr. Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87120, has submitted a discharge plan renewal application for the El Paso Natural Gas Company Gallup Compressor Station located in the NE/4 of Section 9, Township 19 North, Range 17 West, NMAPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 317 feet to 810 feet with estimated total dissolved solids concentration ranging from approximately 425 mg/l to 593 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-174) - El Paso Natural Gas Company, Mr. Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87120, has submitted a discharge plan renewal application for the El Paso Natural Gas Company White Rock Compressor Station located in the NE/4 of Section 15, Township 23 North, Range 14 West, NMAPM, San Juan County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved

solids concentration of 1000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 230 feet to 400 feet with estimated total dissolved solids concentration ranging from approximately 1600 mg/l to 7600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information

available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information in the plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of October, 1999.

STATE OF NEW MEXICO  
OIL CONSERVATION  
DIVISION  
LORI WROTENBERY,  
Director

Legal #46354

Pub. October 28, 1999

# Affidavit of Publication

STATE OF NEW MEXICO

) SS

COUNTY OF MCKINLEY

RANGEL, LYDIA being duly sworn upon oath, deposes and says:

As LEGALS CLERK of The Independent, a newspaper published in and having a general circulation in McKinley County, New Mexico and in the City of Gallup, New Mexico and having a general circulation in Cibola County, New Mexico and in the City of Grants, New Mexico and having a general circulation in Apache County, Arizona and in the City of St. Johns and in the City of Window Rock, Arizona therein: that this affiant makes this affidavit based upon personal knowledge of the facts herein sworn to. That the publication, a copy of which is hereto attached was published in said newspaper during the period and time of publication and said notice was published in the newspaper proper, and not in a supplement thereof,

for one time, the first publication being on the 27th day of October, 19 99 the second publication being on the \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_ the third publication on the \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and the last publication being on the \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

That such newspaper, in which such notice or advertisement was published, is now and has been at all times material hereto, duly qualified for such purpose, and to publish legal notices and advertisements within the meaning of Chapter 12, of the statutes of the State of New Mexico, 1941 compilation.

Lydia Rangel  
Affiant.

Sworn and subscribed to before me this 29th day of October, A.D., 19 99.

Diane Chavez  
Notary Public

My commission expires  
June 22, 2001

## LEGAL NOTICE Santa Fe County New Mexico

### NOTICE OF PUBLICATION

STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

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(GW-173)-El Paso Natural Gas Company, Mr. Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87129, has submitted a discharge plan renewal application for the El Paso Natural Gas Company Gallup Compressor Station located in the NE 1/4 of Section 9, Township 19 North, Range 17 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 317 feet to 810 feet with estimated total dissolved solids concentration ranging from approximately 425 mg/l to 593 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surfaces will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of October 1999.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
LORI WROTENBERY, Director  
Legal #0388 Published in The Independent October 27, 1999.

P 326-337 132

US Postal Service  
Receipt for Certified Mail  
No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

02D/J. FORD  
GW-173

|   |         |
|---|---------|
| Sent to   |         |
| Gallup Independent  |         |
| Street & Number   |         |
| P.O. Box 1210   |         |
| Post Office, State, & ZIP Code                              |         |
| Gallup, NM 87305  |         |
| Postage   | \$ 0.10 |
| Certified Fee   | 2.00    |
| Special Delivery Fee  |         |
| Restricted Delivery Fee                                     |         |
| Return Receipt Showing to Whom & Date Delivered             |         |
| Return Receipt Showing to Whom, Date, & Addressee's Address |         |
| TOTAL Postage & Fees  | \$      |
| Postmark or Date  |         |

PS Form 3800, April 1995

## **NOTICE OF PUBLICATION**

### **STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

**(GW-173) - El Paso Natural Gas Company, Mr. Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd., NW, Albuquerque, New Mexico 87120, has submitted a discharge plan renewal application for the El Paso Natural Gas Company Gallup Compressor Station located in the NE/4 of Section 9, Township 19 North, Range 17 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 317 feet to 810 feet with estimated total dissolved solids concentration ranging from approximately 425 mg/l to 593 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.



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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico,  
on this 21st day of October 1999.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
LORI WROTENBERY, Director

S E A L

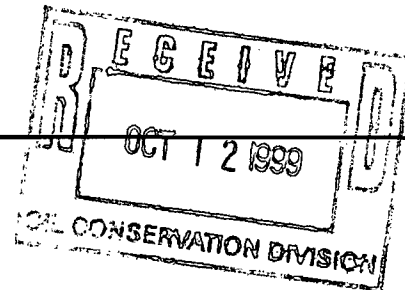


Oil Conservation Div.  
Environmental Bureau  
2040 S. Pacheco  
Santa Fe, NM 87505

**OIL CONSERVATION DIVISION - DISTRICT I Hobbs - P.O. Box 1980 - Hobbs, NM 88241-1980 - (505) 393-6161 FAX (505) 393 - 0720**



October 8, 1999



Roger Anderson  
NMOCD – Environmental Bureau  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Overnight Mail  
FedEx Air Bill No. 7903 0819 9862

**Re: Discharge Plan GW-173 Renewal; El Paso Natural Gas Company's Gallup  
Compressor, McKinley County, NM**

Dear Mr. Anderson:

Enclosed please the subject documents. Also enclosed is EPNG Check No. 07426674, in the amount of \$740 to cover the filing fee (\$50) and renewal fee (\$690). Except for the "wash-down" water and stormwater runoff, Gallup Station is a zero discharge facility, with all the wastewater discharging into a double-lined pond.

Please contact me at (505) 831-7763 if you have any questions regarding this renewal application or if you wish to schedule a site inspection.

Sincerely,

Richard Duarte  
Principal Compliance Engineer  
Compliance Services Department

Enclosure (application – 1 original & 1 copy)

**Copy (with enclosure):**

Denny G. Foust  
NMOCD – Environmental Bureau  
1000 Rio Brazos Street  
Aztec, NM 87410

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 10-7-99,

or cash received on \_\_\_\_\_ in the amount of \$ 740.00

from El Paso Natural Gas Co.

for Gallup C.S. GW-173

Submitted by: [Signature] (Family Name) Date: 10-21-99 (DP No.)

Submitted to ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal ☒

Modification \_\_\_\_\_ Other \_\_\_\_\_

(Appendix)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment \_\_\_\_\_

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM

EL PASO NATURAL GAS COMPANY

P.O. Box 1492

El Paso, TX 79978

CITIBANK DELAWARE

A Subsidiary of Citicorp

One Penn's Way

New Castle, DE 19720

62-20/311

Date 10/07/1999

Pay Amount \$740.00\*\*\*

Void After One Year

Pay \*\*\*\*SEVEN HUNDRED FORTY AND XX / 100 US DOLLAR\*\*\*\*

To The  
Order Of

NMED WATER QUALITY MANAGEMENT

2040 S Pacheco  
Santa Fe, NM 87505

Re: Gallup GW-173

[Signature]

Authorized Signature

Check Date: 10/07/1999

EL PASO NATURAL GAS COMPANY

Check No. [REDACTED]

Refer Payment Inquires to (915) 496-5354

| Invoice Number | Invoice Date | Voucher ID | Gross Amount | Discount Available | Paid Amount |
|----------------|--------------|------------|--------------|--------------------|-------------|
| CKREQ991005B   | 10/05/1999   | 00071640   | 740.00       | 0.00               | 740.00      |

Gallup GW-173

| Vendor Number | Vendor Name                   |  | Total Discounts |                 |                   |
|---------------|-------------------------------|--|-----------------|-----------------|-------------------|
| 8000001207    | NMED WATER QUALITY MANAGEMENT |  | \$0.00          |                 |                   |
| Check Number  | Date                          |  | Total Amount    | Discounts Taken | Total Paid Amount |
| [REDACTED]    | 10/07/1999                    |  | \$ 740.00       | 0.00            | \$740.00          |

**Gallup Compressor Station  
Discharge Plan  
RENEWAL Application**



**Prepared for:  
New Mexico Oil Conservation Division  
October 8, 1999**

*All Fees Paid  
10-7-99*

**El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, TX 79978  
(915) 541-3242**

Gallup Compressor Station  
Discharge Plan

This Discharge Plan has been prepared in accordance with New Mexico Oil Conservation Division (OCD) "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants".

**I. General Information**

El Paso Natural Gas (EPNG) Company operates a natural gas compressor station known as "Gallup Compressor Station".

**A. Discharger:**

All correspondence regarding this discharge plan should be sent to EPNG headquarters at the address below:

Thomas P. Morgan  
Transmission Operations Vice President  
El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79978  
(915) 492-2600

**B. Local Representative**

A copy of all correspondence and all questions should be directed to the Albuquerque Division Compliance Services Engineer:

Richard Duarte  
Principle Compliance Engineer  
El Paso Natural Gas Company  
3801 Atrisco Blvd. NW  
Albuquerque, NM 87120  
(505) 831-7763

**C. Location of Discharge**

Gallup Compressor Station is located in the NE/4 of Tenative Section 9, Township 19-N, Range 17-W, in McKinley County, New Mexico. The station is approximately 31 miles north of Gallup, New Mexico, and ½ mile east of U.S. Highway No. 666

**D. Type of Natural Gas Operation**

The compressor facility pressurizes Natural Gas from EPNG's 1200, 1201, 1202, and 1208 pipelines. Both streams flow through horizontal filters/separators before going to

the compressors. The installation includes one GE Frame 5 17,660 horsepower turbine and one GE Frame 3 7,190 horsepower turbine, and their associated equipment.

Major operational components are:

- one GE Frame 5 turbine and one GE Frame 3 turbine
- four inlet filters/scrubbers
- one fuel gas filter
- one auxiliary electric generator
- one lube oil storage tank (210 BBL)
- one above ground used oil tank (10,000 gallon)
- one above ground ambitrol tank (4,000 gallon)
- one above ground waste liquids tank (1,000 gallon)

Discharges from each of the above components are discussed separately in section II of this application.

### Affirmation

I hereby certify that I am familiar with the information contained in this application submitted for the Gallup Compressor Station Discharge Plan and that such information is true, accurate, and complete to the best of my knowledge and belief.

Richard Duarte  
Signature

10-8-99  
Date

Richard Duarte  
Printed Name

Principle Compliance Engr.  
Title

## II. Plant Processes

### Compressors:

The compressors have been installed in such a manner as to ensure containment of drips, spills and washdown water. Any spill or washdown water from cleaning operations is contained and discharged into a 1,000-gallon above ground tank.

Used oil is generated from the standby generator at a rate of approximately 25 gallons per 4,000 hours of operation. This oil is drained into the 1,000-gallon above ground storage tank and hauled from the site by an oil recycler.



#### Inlet & Fuel Gas Scrubbers:

Four suction scrubbers, one on the inlet side of the Frame 5 compressor unit, and three on the inlet side of the Frame 3 compressor unit, remove natural gas liquids. Natural gas liquids generated by these scrubbers are discharged to a 10,000-gallon above ground tank. The volume of liquids will vary.

A fuel gas filter is at the inlet to the fuel gas line for all four turbines. Any natural gas liquids from this scrubber will also be discharged to the 10,000-gallon above ground tank.

#### Lube Oil Storage Tank:

A 210 BBL lube oil storage tank is located on-site to supply oil to both turbines and has secondary containment.

#### Ethylene Glycol

A 4,400 gallon ethylene glycol storage tank is located on site with secondary containment. Ethylene glycol is used to cool the turbines.

#### Underground Drain Lines:

All underground piping and drain lines carrying either chemical commercial products or waste liquids were hydrostatically tested during their installation.

#### Effluent Handling and Site Housekeeping:

The Gallup Compressor Station has state-of-the-art equipment and controls. This equipment minimizes on-site chemicals and prevents and mitigates any unplanned releases to the environment. Regularly scheduled maintenance procedures also help to ensure that the equipment remains functional and thus the possibility of spills or leaks is further minimized. The MSDS sheets for all chemicals handled at the station can be supplied upon request.

EPNG personnel visit this site on a weekly or as-needed basis. Leaks, spills, and drips are managed as follows:

Small spills are absorbed by the soil or commercial absorbent pads. Any contaminated soil is excavated and contained in drums for recycle or off-site disposal.

Large spills are contained by the drain system or with commercial absorbent pads. Where possible, liquids and solid waste are segregated and managed in separate drums for recycle or disposal.

The waste generated from either scenario above is characterized and recycled if possible. If not recyclable, the waste is disposed according to its analytical profile.

Verbal and written notification of leaks or spills are made to the Bureau of Indian Affairs and OCD in accordance with BIA—Navajo Area Office Procedures for Undersirable Events Response (Oil and Gas Operations) and OCD Rule 116. Any release of a chemical with a reportable quantity regulated by Title 40 Code of Federal Regulations Parts 300 through 372 are reported to the National Response Center, and where applicable NMED.

### **III. Effluent and Solid Waste Disposal**

There is minimal liquid and solid waste generated. All effluent and solid waste is characterized and managed for recycle, if possible, or disposal according to their analytical profile. Effluent and solid waste that cannot be recycled is disposed in facilities approved by OCD, NMED or other jurisdictional agencies.

On-site effluent disposal utilizes the double-lined evaporation pond associated with the station's air intake cooling system. This pond is used for evaporative disposal of air cooling water at an estimated rate of 10,000 gal/day during the summer months. The system's use is limited to the brief periods when hot ambient conditions occur during the day. This impoundment equipped with a leak detection system that is periodically inspected for any leaks of the lined pond.

The double-lined evaporation pond was constructed using only top quality materials. The top liners is high-density polyethylene (60-mil., minimum), 8130-XR-5 Material (30mil., minimum), industrial grade reinforced chlorosulfonated polyethylene (Hypalon, 36 mil. minimum), polypropylene (40 mil., minimum), or scrim-reinforced polypropylene (45 mil., minimum). The bottom liner is PVC (30 mil. minimum), high density polyethylene (30 mil., minimum), chlorinated polyethylene (30 mil., minimum), chlorosulfonated polyethylene (30 mil., minimum), polypropylene (30 mil., minimum), or scrim-reinforced polypropylene (45 mil., minimum). The geonet is a high density polyethylene (200 mil., minimum). The geotextile is a heavyweight non-woven polypropylene geotextile (16 oz/yd., minimum).

The leak detection system includes a 4 inch PVC perforated pipe. Pipes within the bottom liner containment volume (leak detection field) are perforated. Pipe located between the leak detection well and the pond shall have solid walls (no perforations).

The site also has a septic tank to treat domestic sewage. The septic system only receives sewage from one wash room with one toilet and one wash basin. This system was constructed in accordance with NMED guidelines for on-site disposal systems.

### **IV. Site Characteristics**

Gallup Compressor Station is located within the Navajo Indian Reservation section of the Colorado Plateau physiographic province, in the southwest portion of the San Juan structural basin. Topographic relief within 1 mile of the site is approximately 402 feet with elevations ranging between 5928 and 6330 feet above sea level.

The area around the station is characterized by eolian and alluvial sediments of mixed origin. Groundwater is mostly obtained from water bearing units of the Mesaverde Group. Groundwater in this group is derived from local precipitation, recharging the various members of the Mesaverde Group. Stone et. al, (1983) and the State Engineering Office report no wells within a 11.3 km vicinity of the facility; however, topographic maps indicate several wells within a 2 km radius from the facility.

#### **a. Geomorphology and Soils**

The compressor station is located in a relatively flat area with a gently sloping mountain range located approximately 0.675 km west of the station.

The major soil association in the area of the compressor site is the Hagerman-Travessilla association (Maker et. al, 1974). Maker et. al, classifies this association as occupying the nearly level to gently sloping mesa and ridge tops. The surface layer is brown, friable noncalcareous fine sandy loam or loam. It grades at a depth of three to six inches to a subsoil of reddish-brown sandy clay loam. A layer of limy, light brown sandy clay loam, about three inches thick, is usually present just above the bedrock. These soils average about 30 inches deep over sandstone, but may range from 20 to 40 inches in depth.

#### **b. Regional Geologic Setting**

The compressor station is located within the west-central portion of the San Juan Basin (See Topographic Map attached as Tab "E"). The deepest portion of the basin contains up to 15,000 feet of Paleozoic and Mesozoic sediments. Late Cretaceous age rocks outcrop in the mountains west of the compressor station (Stone et. al, 1983). The following geologic description examines the different units of the Mesaverde Group, which underlies the compressor station.

##### Cliff House Sandstone

The Cliff House Sandstone is the upper most member of the Mesaverde Group. The Cliff House forms the top or eastern flanks of the Hogback monocline marking the edge of the central basin. The Cliff House unconformably overlies the Menefee Formation. The Cliff House is composed of fine to very fine-grained, immature to submature subarkose. The unit varies from 20 to 245 feet thick throughout the basin.

##### Menefee Formation

The Menefee Formation conformably or disconformably overlies the Point Lookout Formation. The Menefee Formation is the middle unit of the Mesaverde Group. This

unit crops out in the center of the Hogback monocline west of Farmington, New Mexico, and in a vast area of the Chaco slope. The Menefee Formation consists of two separate members based on the presence or absence of coal: the basal Clearly Member (coal bearing) and the upper Allison Member (non-coal bearing). The Menefee Formation is composed of interbedded claystone, carbonaceous siltstone and shale, coal, and sandstone. The thickness of the Menefee Formation varies from 400 to 1,000 feet.

#### Point Lookout Sandstone

The Point Lookout Sandstone is the lowest member of the Mesaverde Group. The Point Lookout is exposed in the Hogback monocline west of Farmington, New Mexico. The unit is split into two units along the southern margin of the basin by the Satan Tongue of the Mancos Shale. The lower portion is referred to as the Hosta Tongue while the upper portion is referred to as the main body of the Point Lookout Sandstone. The Point Lookout is composed of very fine to medium-grained, immature to submature, lithic arkose to arkose. The thickness of this unit varies from 40 to 415 feet. The Point Lookout lies conformably on the Mancos Shale.

### **c. Local Geology**

The Gallup Compressor Station is located on flat to relatively flat plains north of Gallup New Mexico, and ½ mile east of U.S. Highway 66 on the Navajo Indian Reservation. The facility has five (5) water wells, all of which have been capped and abandoned. The drillers' logs for these wells report that up to 1,240 feet of alternating sand and shale with some clay were encountered.

### **d. Regional Groundwater**

Three major groundwater systems are present in the Cretaceous and younger-age sedimentary deposits of this area of the San Juan Basin (Stone et. al, 1983). These aquifers are:

1. Confined aquifers within the Cretaceous and Tertiary sandstone units.
2. Water-table aquifers in the Cretaceous and Tertiary sandstone units near their outcrop areas.
3. Water-table aquifers in Quaternary alluvium, in river valleys and their tributaries.

#### Cretaceous units

Occurrence of groundwater resources associated with Cretaceous units is a function of the distribution of sandstone beds within these units. Recharge is dependent upon outcrop distribution, elevation, climate of the outcrop area, lithologic characteristics of the unit and leakage from other units. Hydraulic conductivity is usually low due to the fine-grained textures characteristic of these sediments.

Groundwater quality in Cretaceous sandstone aquifers is controlled by several factors. Total dissolved solids (TDS) concentrations increase as a function of increasing groundwater residence time and reduced transmissivity of aquifer materials. Fresh water is associated with low transmissivity zones. Groundwater moving along the sandstone-shale interfaces common to these rocks to exhibit increased TDS concentrations (Stone et. al, 1983). Water from these confined aquifers is suitable for stock and domestic use in some areas, although in most cases it is not considered a major source.

#### Tertiary units

Groundwater occurrence in Tertiary units is associated with the distribution of sandstone beds within these units. Groundwater recharge occurs through formations exposed along the flanks of the Nacimiento Uplift on the broad plateaus along the central part of the basin. Recharge amount to Tertiary aquifers is higher than that of Cretaceous aquifers due to broader exposures in areas of high precipitation. Groundwater in these aquifers flows from upland recharge areas to discharge areas along canyon floors. Springs and seeps result due to regional topography and geomorphic controls. The hydraulic conductivity of the Tertiary sandstone varies significantly as a function of grain size, sorting and cementation. The hydraulic gradient is controlled by topography, but the structural attitude of formation can alter the flow direction.

Tertiary sandstone aquifers have generally lower TDS concentrations than the Cretaceous aquifers (Stone et. al, 1983), and commonly provide major sources of water for domestic and agricultural usage. The complex intertonguing of sandstone and shale units is the primary influence on specific conductance, which can be as high as 10,500  $\mu\text{mho/cm}$ .

#### Quaternary units

Quaternary age aquifers occur primarily as valley fill in the major river valleys and consist of gravel, sand, silt, and clay. In arroyos the groundwater quality and quantity is highly variable. Where available, water from this source is used for stock, irrigation and domestic purposes.

### **e. Local Groundwater**

According to topographic maps published by the New Mexico Oil Conservation Division to support "Vulnerable Area Order", R-7940-C, Gallup Compressor Station is located outside the vulnerable zone. Depth to water at the facility ranges between 317 to 810 feet below the surface.

The State Engineers office and Stone et. al (1983) report no wells within a one-mile radius. Photographs dated June 1981 show two (2) small ranches approximately ½ mile from the station's property line. It is uncertain if these ranches have a private water well.

EPNG drilled five wells between March 1953, and July 1972. Wells #1 and #2 were drilled to depths of 375 and 365 feet respectively, although they were later abandoned. Wells #3, #4, and #5 were drilled to depths of 775, 1,131 and 1,240 feet respectively and were also later abandoned. Water quality data taken from Wells #3, #4, and #5 when they were still producing is presented in Table 1. The water samples were collected on January 1, 1979. In 1996, Wells #3, #4 and #5 were plugged and abandoned. Water for the station is provided by the Navajo Tribal Utility Authority.

**f. Surface Water Hydrology and Flooding Potential**

Gallup Compress Station is located in flat to relatively flat regions of McKinley County, New Mexico. There are no permanent surface waters in the vicinity of the plant, which would add to the flooding potential for the facility. Nine flooding events occurred in McKinley County between the years of 1959-1979 (Williams, 1981). Therefore, plant-flooding potential is negligible since no surface waters exist near the facility.

**TABLE 1**  
**GALLUP COMPRESSOR STATION**  
**WATER QUALITY DATA**

| PARAMETERS             | WELL No. 3             | WELL No. 4             | WELL No. 5             |
|------------------------|------------------------|------------------------|------------------------|
| Conductivity           | 898 $\mu\text{mho/cm}$ | 655 $\mu\text{mho/cm}$ | 913 $\mu\text{mho/cm}$ |
| Total Hardness         | 2 ppm                  | 2 ppm                  | 4 ppm                  |
| Ph                     | 9.9                    | 8.7                    | 8.6                    |
| TDS                    | 748 ppm                | 562 ppm                | 788 ppm                |
| Mg-CaCO <sub>3</sub>   | 2 ppm                  | 2 ppm                  | 4 ppm                  |
| Na                     | 205 ppm                | 154 ppm                | 219 ppm                |
| Fe                     | 0.1 ppm                | 0.15 ppm               | 0.1 ppm                |
| Alka-CaCO <sub>3</sub> | 55 ppm                 | 5 ppm                  | 5 ppm                  |
| Alkalinity             | 410 ppm                | 300 ppm                | 390 ppm                |
| Cl                     | 7 ppm                  | 7 ppm                  | 7 ppm                  |
| F                      | 0.84 ppm               | 0.5 ppm                | 0.98 ppm               |
| SiO <sub>4</sub>       | 12 ppm                 | 9.8 ppm                | 12 ppm                 |
| SO <sub>4</sub>        | 23.6 ppm               | 25 ppm                 | 74 ppm                 |

## REFERENCES

- Maker, H.J., Bullock, H.E., Jr., and Anderson, J.U., 1974. *Soil Associations and Land Classification for Irrigation, McKinley County*, U.S. Soil Conservation Service.
- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983. *Hydrogeology and Water Resources of San Juan Basin, New Mexico; New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6*.
- Williams, J.L., 1986. *New Mexico in Maps, Second Edition*, UNM Press, New Mexico, p.42-43 and p.58-59.





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury  
CABINET SECRETARY

Oil Conservation Div.  
Environmental Bureau  
2040 S. Pacheco  
Santa Fe, NM 87505

**Memorandum of Meeting or Conversation**

Telephone   X    
Personal       

Time: 8:30 pm  
Date: Sept. 28, 1999

**Originating Party:** Wayne Price-OCD

**Other Parties:** Message center for Richard Duarte - El Paso Natural Gas Co.  
505-831-7763

**Subject:** Discharge Plan Renewal Notices for GW-173 Gallup Comp. ST & GW-174  
White Rock Comp. ST.

**Discussion:**

**Recommend to submit DP application & \$50 filing fee before Oct 8, 1999 in order to take  
advanatage of WQCC 3106.F.**

**Conclusions or Agreements:**

Signed:                     

CC:

Check Date:

04/09/98

**EL PASO NATURAL GAS COMPANY**

Check No.

Refer Pmt Inquires to (915) 496-5354

| Invoice Number | Invoice Date | Voucher ID | Gross Amount | Discount Available | Paid Amount |
|----------------|--------------|------------|--------------|--------------------|-------------|
| CKREQ980402    | 04/02/98     | 00036031   | 2,760.00     | 0.00               | 2,760.00    |

For GW-174 White Rock Station (on Navajo Indian Lands) \$1,380  
 For GW-173 Gallup Station (on Navajo Indian Lands) \$1,380

| Vendor Number | Vendor Name                   |  | Total Discounts |                 |                   |
|---------------|-------------------------------|--|-----------------|-----------------|-------------------|
| 8000001207    | Nmed Water Quality Management |  | \$0.00          |                 |                   |
| Check Number  | Date                          |  | Total Amount    | Discounts Taken | Total Paid Amount |
|               | 04/09/98                      |  | \$ 2,760.00     | \$ 0.00         | \$2,760.00        |

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 4/9/98  
or cash received on \_\_\_\_\_ in the amount of \$ 2760.00

from EPNG  
for White Rock CS GW-174  
Gallup CS GW-173

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Submitted to ASD by: R. Chaudhry Date: 6/18/98

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee \_\_\_\_\_ New Facility \_\_\_\_\_ Renewal ☒  
Modification \_\_\_\_\_ Other \_\_\_\_\_

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment \_\_\_\_\_

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BEING NEARER THE TOP OF THE DOCUMENT.

|  |   |   |                                    |
|--|---|---|------------------------------------|
| <b>EL PASO NATURAL GAS COMPANY</b><br>P.O. Box 1402<br>El Paso, TX 79978 | <b>PAYABLE AT</b><br><b>CITIBANK DELAWARE</b><br>A Subsidiary of Citicorp<br>One Penn's Way<br>New Castle, DE 19720 | <b>DATE</b> 04/09/98<br><b>VOID AFTER 1 YEAR</b><br>62-20/311 | <b>PAY AMOUNT</b><br>\$2,760.00*** |
|--|---|---|------------------------------------|

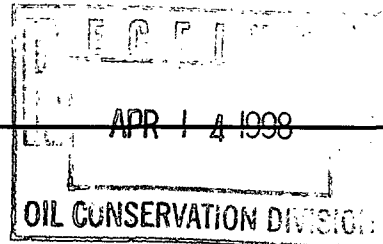
**PAY:** \*\*\*\*TWO THOUSAND SEVEN HUNDRED SIXTY AND XX / 100 US DOLLAR\*\*\*\*  
**TO THE**  
**ORDER OF** NMED WATER QUALITY MANAGEMENT

2040 S Pacheco  
Santa Fe, NM 87505

Discharge Plan Fees GW-173 & GW-174  
on Navajo Indian Lands  
|||||

H. Brent Austin  
Authorized Signature

COPY BANK: ANTI-FRAUD PROTECTION - PATENTS 4,215,344; 4,227,720; 4,316,180; 5,197,726



**Certified  
Return Receipt Requested  
P 412 249 491**

April 13, 1998

Mark Ashley  
NM Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**Re: Discharge Plan Fees for GW--173 Gallup Station & GW--174 White Rock Station.**

Dear Mr. Ashley:

Enclosed please find EPNG check No. 07409949 in the amount of \$2,760 for the subject fees.

If you should have any questions, please contact me at 505/831-7763.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'Richard Duarte'.

Richard Duarte  
Sr. Compliance Engineer  
Compliance Services

Mr. M. Ashley, NMOCD  
Discharge Plan Fees for White Rock & Gallup  
April 13, 1998  
Page 2

**Blind Copy (with enclosure):**

Bruce S. Campbell \*  
Don R. Payne  
Sandra D. Miller / Thomas D. Hutchins  
Russ Pyeatt \*  
Donald Campbell \*

File: Gallup Station -- wastewater  
White Rock Station -- wastewater

R. Duarte's Chron. (W/o enclosure)

\* denotes sent via MS mail



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

February 20, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-288-259-022**

Mr. Thomas D. Hutchins  
El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79978

**Re: Discharge Plan Fees GW-173  
Gallup Compressor Station  
McKinley County, New Mexico**

Dear Mr. Hutchins:

On August 18, 1994 the New Mexico Oil Conservation Division (OCD) received, via certified mail, from El Paso Natural Gas Company (EPNG) a discharge plan application for EPNG's Gallup Compressor Station. The OCD issued public notice and processed the application. On February 8, 1995 EPNG received, via certified mail, a letter from the OCD stating that the discharge plan GW-173 for the Gallup Compressor Station was approved.

On January 29, 1997, El Paso Natural Gas Company (EPNG) received, via certified mail, a letter from the New Mexico Oil Conservation Division (OCD) reminding EPNG that the \$1,380 flat fee for Gallup Compressor Station (GW-173) had not yet been received. As of this date, the OCD has not received the required flat fee.


EPNG must submit the \$1,380 in order to be in compliance with Water Quality Control Commission Regulation 3114. Please submit the flat fee in full by March 20, 1998 or the OCD will initiate enforcement actions which may include fines and/or an order to cease all operations at the facility.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Mr. Thomas D. Hutchins  
February 20, 1998  
Page 2

If you have any questions, please contact me at (505)-827-7152 or Mark Ashley at (505) 827-7155.

Sincerely,

  
Roger Anderson  
Environmental Bureau Chief

RCA/mwa

cc: OCD Aztec Office

P 288 259 022

US Postal Service  
Receipt for Certified Mail  
No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

|   |    |
|---|----|
| Sent to   |    |
| Street & Number   |    |
| Post Office, State, & ZIP Code                              |    |
| Postage   | \$ |
| Certified Fee   |    |
| Special Delivery Fee  |    |
| Ristricted Delivery Fee                                     |    |
| Return Receipt Showing to Whom & Date Delivered             |    |
| Return Receipt Showing to Whom, Date, & Addressee's Address |    |
| TOTAL Postage & Fees  | \$ |
| Postmark or Date  |    |

PS Form 3800, April 1995

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone

☐ Personal

Time 2:00 pm

Date 6/27/97

Originating Party

Other Parties

Pat Sanchez - OCD

Thomas Hutchins - EPN6

Subject

Flats Fee's for GW-173 (Gallup Compressor Station) and GW-174 (White Rock Compressor Station) both are over two years late.

Discussion

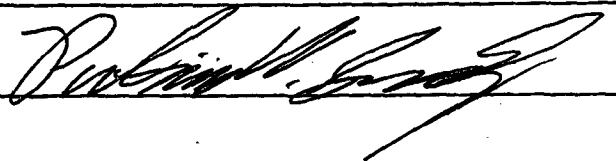
Let Mr. Hutchins know that OCD had sent EPN6 letters on January 29, 1997 regarding payment of the Flat Fees for the two above mentioned facilities. (Permits were approved on February 8, 1995.) Mr. Hutchins informed me that Mr. Bigbie was no longer with EPN6 and that he thought the issue regarding the Fee's and permits had been addressed - i.e. permits were not valid because of Federal/Indian land.

Conclusions or Agreements

I agreed to Fax Mr. Hutchins the two letters dated January 29, 1997 and also a letter sent to the Navajo EPA dated January 13, 1995 by Mr. LeMay, Director of the OCD.

Distribution File - GW-173 & GW-174

Signed







NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

January 29, 1997

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-288-258-754**

Mr. Donald N. Bigbie  
El Paso Natural Gas Company (EPNG)  
P.O. Box 1492  
El Paso, TX 79901

**RE: Discharge Plan Fees GW-173**  
**Gallup Compressor Station**  
**McKinley County, New Mexico**

Dear Mr. Bigbie:

On February 10, 1995, EPNG, received, via certified mail, an approval dated February 8, 1995 from the New Mexico Oil Conservation Division (OCD) for discharge plan GW-173. Each discharge plan has a filing fee and a flat fee as described in WQCC Section 3114 (see **attachment**), the flat fee of \$1,380 for the Gallup facility discharge plan GW-173 has not as of this date January 29, 1997 been received by the OCD Santa Fe Division office for GW-173.

EPNG will submit the \$1,380 flat fee in full by March 3, 1997 in order to be in compliance with Water Quality Control Commission Regulation 3114.B.6, or the OCD may initiate enforcement actions which may include fines and/or an order to cease all operations at the facility. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If you have any questions regarding this matter, please contact me at (505)-827-7152 or Mr. Patricio Sanchez at (505) 827-7156.

Sincerely,

Roger Anderson  
Environmental Bureau Chief

RCA/pws

xc: Mr. Denny Foust - Aztec District OCD office  
**attachment**

P 288 25A 754

US Postal Service  
Receipt for Certified Mail  
No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

|   |    |
|---|----|
| Sent to<br>Mr. Righie - EPN6                                |    |
| Street & Number<br>6W-173 Gallup.                           |    |
| Post Office, State, & ZIP Code<br>Flat Pk.                  |    |
| Postage   | \$ |
| Certified Fee   |    |
| Special Delivery Fee  |    |
| Restricted Delivery Fee                                     |    |
| Return Receipt Showing to Whom & Date Delivered             |    |
| Return Receipt Showing to Whom, Date, & Addressee's Address |    |
| TOTAL Postage & Fees  | \$ |
| Postmark or Date  |    |

PS Form 3800, April 1995



January 13, 1995

Sadie Hoskie, Director  
Navajo Nation EPA  
P.O. Box 308  
Window Rock, AZ 86515

RE: El Paso Natural Gas Company discharge plan applications—GW-173 Gallup Compressor Station and GW-174 White Rock Compressor Station

Dear Ms. Hoskie:

In response to your letter of October 26, 1994, we have given thoughtful consideration to your request that the Oil Conservation Division dismiss the proceedings related to ground water permits for the Gallup and White Rock Compressor Stations. Our program is designed, among other things, to protect groundwater, an important resource common to the State and the Navajo Nation.

After contacting Mr. Patrick Antonio of your office, we learned that the Navajo Nation does not have a program currently in place equivalent to the OCD program which would ensure that plans are formulated to handle discharges posing a threat to groundwater. Until such a program is up and running, it is appropriate to take advantage of the existing program within the Oil Conservation Division to protect groundwater.

The OCD will therefore continue to process the above-referenced applications. Copies of the plans submitted to the OCD will be furnished to the Navajo Nation EPA. Your comments and other participation in the process are most welcome.

Once the Navajo Nation has its own groundwater protection program in place to handle these discharges, we can work on an arrangement that would allow the OCD to defer to the Navajo Nation EPA, which could then act in the place of the OCD.

**VILLAGRA BUILDING - 408 Gallatin**

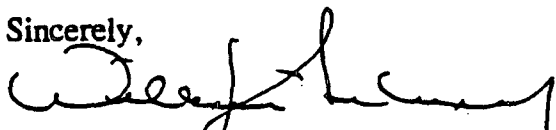
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7485

**2040 South Pacheco**

Office of the Secretary  
827-5950  
  
Administrative Services  
827-5925  
  
Energy Conservation & Management  
827-5900  
  
Mining and Minerals  
827-5970  
  
Oil Conservation  
827-7131

If you have any questions please call me at 505/827-7132. I look forward to working with you.

Sincerely,

A handwritten signature in dark ink, appearing to read 'William J. Lemay', written over the printed name.

William J. Lemay, Director  
New Mexico Oil Conservation Division



THE  
NAVAJO  
NATION

OIL CONSERVATION DIVISION  
RECEIVED

'94 OCT 26 AM 8 52

P.O. BOX 308      WINDOW ROCK, ARIZONA 86515      (602) 871-4941

PETERSON ZAH  
PRESIDENT

MARSHALL PLUMMER  
VICE PRESIDENT

21 OCT 1994

William J. Lemay  
Director, Oil Conservation Division  
New Mexico State Land Office Building  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

**RE: El Paso Natural Gas Company discharge plan applications  
GW-173 Gallup Compressor Station and GW-174 White Rock  
Compressor Station**

Dear Mr. Lemay:

In response to the Notices of Publication on the above-referenced discharge plan applications, the Navajo Nation submits the following comments for the record.

Pursuant to established principles of federal Indian law, environmental statutes and the implementing regulations, the State of New Mexico lacks jurisdiction to approve, deny, or otherwise regulate the proposed discharges on Indian reservations. Both discharge plan applications at issue here involve sites geographically located within the formal boundaries of the Navajo Nation Indian Reservation, established by the Executive Order of 1880, on lands owned in trust by the United States for the Navajo Nation. Environmental regulatory jurisdiction over these sites reposes exclusively in the United States and the Navajo Nation. Until the Navajo Nation assumes primary enforcement authority over discharges to surface or groundwater pursuant to the federal Clean Water Act and Safe Drinking Water Act, the United States Environmental Protection Agency retains sole jurisdiction relative to the state to regulate discharges to surface and ground water on the Navajo Reservation.

The state should therefore immediately dismiss its proceedings on GW-173 and GW-174 for lack of jurisdiction, and inform El Paso Natural Gas Company that it should submit the proper applications to Region 9 of the United States Environmental Protection Agency, with a copy to the Navajo Nation Environmental Protection Agency.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Sadie Hoskie', with a stylized flourish at the end.

Sadie Hoskie, Director  
Navajo Nation EPA

cc: Patrick Antonio  
Peg Rogers  
Greg Lind  
Terry Oda

STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES  
DEPARTMENT  
OIL CONSERVATION DIVISION  
Notice is hereby given that pursuant  
to the New Mexico Water Quality  
Control Commission Regulations, the  
following discharge plan applications  
have been submitted to the Director of  
the Oil Conservation Division, State  
Land Office Building, P.O. Box 2068,  
Santa Fe, New Mexico 87504-2068,  
Telephone (505) 827-6800:

STATE OF NEW MEXICO  
Oil Conservation Division  
County of Bernalillo  
RECEIVED

SS

OC 11 AM 8 52

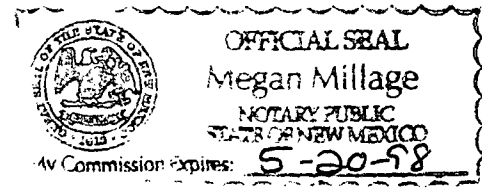
Bill Tafoya being duly sworn declares and says that he is Classified  
Advertising Manager of The Albuquerque Journal, and that this newspaper  
is duly qualified to publish legal notices or advertisements within the meaning  
of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore  
has been made or assessed as court costs; that the notice, copy of which is  
hereto attached, was published in said paper in the regular daily edition,  
for 1 times, the first publication being on the 25 day  
of Sept., 1994 and the subsequent consecutive publications  
on Bill Tafoya, 1994

Sworn and subscribed to before me, a notary Public in  
and for the County of Bernalillo and State of New  
Mexico, this 25 day of Sept. 1994.

PRICE \$ 44.95

Statement to come at end of month.

CLA-22-A (R-1/93) ACCOUNT NUMBER C 80932



(GW-173) - El Paso Natural  
Gas Company, Donald N.  
Bigbie, Vice President, 304  
Texas Street, El Paso, Texas  
79901, has submitted a dis-  
charge application for their  
Gallup Compressor Station  
located in the NE/4 Section  
8, Township 19 North, Range  
17 West, NMPM, McKinley  
County, New Mexico. Ap-  
proximately 10,000 gallons  
per day of cooling tower  
blowdown water with total  
dissolved solids concentra-  
tion of 1,000 mg/l is stored in  
an above ground double  
lined evaporation pond  
equipped with leak detec-  
tion. Groundwater most like-  
ly to be affected in the event  
of an accidental discharge is  
at a depth ranging from 317  
feet to 610 feet with a total  
dissolved solids concentra-  
tion of approximately 2000  
mg/l. The discharge plan  
addresses how spills, leaks,  
and other accidental dis-  
charges to the surface will  
be managed.

(GW-174) - El Paso Natural  
Gas Company, Donald N.  
Bigbie, Vice President, 304  
Texas Street, El Paso, Texas  
79901, has submitted a dis-  
charge application for their  
White Rock Compressor  
Station located in the NE/4  
Section 15, Township 23  
North, Range 14 West,  
NMPM, McKinley County,  
New Mexico. Approximately  
10,000 gallons per day of  
cooling tower blowdown  
water with total dissolved  
solids concentration of  
1,000 mg/l is stored in an  
above ground double lined  
evaporation pond equipped  
with leak detection.  
Groundwater most likely to  
be affected in the event of an  
accidental discharge is at a  
depth ranging from 220 feet  
to 480 feet with a total  
dissolved solids concentra-  
tion ranging from approx-  
imately 1900 mg/l to 7600  
mg/l. The discharge plan  
addresses how spills, leaks,  
and other accidental dis-  
charges to the surface will  
be managed.

Any interested person may obtain  
further information from the Oil and  
Conservation Division and may sub-  
mit written comments to the Director  
of the Oil Conservation Division at the  
address given above. The discharge  
plan applications may be viewed at  
the above address between 8:00 a.m.  
and 4:00 p.m., Monday thru Friday.  
Prior to ruling on any proposed  
discharge plans or its modification,  
the Director of the Oil Conservation  
Division shall allow at least thirty (30)  
days after the date of publication of  
this notice during which comments  
may be submitted to him and public  
hearing may be requested by any  
interested person. Request for public  
hearing shall set forth the reasons  
why a hearing shall be held. A  
hearing will be held if the director  
determines that there is significant  
public interest.  
If no hearing is held, the Director will  
approve or disapprove the plans  
based on the information available. If  
a public hearing is held, the Director  
will approve the plans based on the  
information in the plans and informa-  
tion presented at the hearing.  
GIVEN under the Seal of New Mexico  
Conservation Commission at Santa  
Fe, New Mexico, on this 14th day of  
September, 1994.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
s/WILLIAM J. LEMAY,  
Director  
Journal: September 25, 1994.

**NOTICE OF PUBLICATION**

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-173) - El Paso Natural Gas Company, Donald N. Bigbie, Vice President, 304 Texas Street, El Paso, Texas 79901, has submitted a discharge application for their Gallup Compressor Station located in the NE/4 Section 9, Township 19 North, Range 17 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1,000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Groundwater most likely to be affected in the event of an accidental discharge is at a depth ranging from 317 feet to 810 feet with a total dissolved solids concentration of approximately 2000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-174) - El Paso Natural Gas Company, Donald N. Bigbie, Vice President, 304 Texas Street, El Paso, Texas 79901, has submitted a discharge application for their White Rock Compressor Station located in the NE/4 Section 15, Township 23 North, Range 14 West, NMPM, McKinley County, New Mexico. Approximately 10,000 gallons per day of cooling tower blowdown water with total dissolved solids concentration of 1,000 mg/l is stored in an above ground double lined evaporation pond equipped with leak detection. Groundwater most likely to be affected in the event of an accidental discharge is at a depth ranging from 230 feet to 480 feet with a total dissolved solids concentration ranging from approximately 1600 mg/l to 7600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.




Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plans or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plans based on the information available. If a public hearing is held, the Director will approve the plans based on the information in the plans and information presented at the hearing.

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 14th day of September, 1994.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY,  
Director

SEAL

EL PASO NATURAL GAS COMPANY

REMITTANCE ADVICE

Vendor Number  
018711 001

Check Date  
08/18/94

Check Number

| VOUCHER<br>NUMBER  | INVOICE<br>NUMBER | AMOUNT  |          |        |
|--|-------------------|---------|----------|--------|
|  |                   | Invoice | Discount | Net    |
| REFER PAYMENT INQUIRIES TO ACCOUNTS PAYABLE (915) 541-5354 |                   |         |          |        |
| VOUCHER NO   | INVOICE NO        | GROSS   | DISCOUNT | NET    |
| 000381349  | CKREQ940816       | 100.00  | .00      | 100.00 |
| \$50 FILING FEE FOR DISCHARGE PLAN                         |                   |         |          |        |
| SUBMITTAL AS REQUIRED BY WQCC                              |                   |         |          |        |
| REGULATION 3-114 \$50 FOR EACH STATION,                    |                   |         |          |        |
| GALLUP & WHITE ROCK  |                   |         |          |        |
|  | TOTALS            | 100.00  | .00      | 100.00 |
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P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-541-2600

**Sent Certified, Return Receipt Requested**

Thomas D. Hutchins

August 18, 1994

RECEIVED

Mr. William J. LeMay, Director  
Energy, Minerals and Natural Resources Department  
New Mexico Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87504

JUL 23 1994

OIL CONSERVATION DIV.  
SANTA FE

Re: Discharge Plan for El Paso Natural Gas Company's (EPNG's) Gallup Compressor Station

Dear Mr. LeMay:

Enclosed for your review are two copies of the Discharge Plan for EPNG's natural gas compressor facility known as "Gallup Compressor Station". The Discharge Plan specifies procedures to ensure compliance with the New Mexico Water Quality Control Commission Regulations. Also enclosed is the fifty dollar (\$50.00) application filing fee.

EPNG respectfully requests your approval of this plan and will meet with you or agency personnel whenever necessary should more information be required. Should you or agency personnel have any questions, please contact me at (915) 541-3242.

Thank you for your consideration of this matter.

Sincerely,

Thomas D. Hutchins, PE  
Manager, Environmental Compliance Engineering

enclosure

cc: Ms. Sadie Hoskie, Director, Navajo Environmental Protection Administration,  
Division of Resources, P.O. Box 308, Window Rock, AZ 86515

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 8/18/94,  
or cash received on \_\_\_\_\_ in the amount of \$ 100.00  
from El Paso Natural Gas Company  
for GW-172 White Rock Compressor Station & GW173 Gallup Comp. Stat

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
(Facility Name) (DP No.)

Submitted to ASD by: CHRIS EUSTICE Date: 8/23/94

Received in ASD by: Charles L. Schubert Date: 8/23/94

Filing Fee ☒ New Facility ☐ Renewal ☐

Modification ☐ Other ☐  
(specify)

Organization Code 521.07 Applicable FY 95

To be deposited in the Water Quality Management Fund.

Full Payment ☐ or Annual Increment ☐

**e El Paso**  
Natural Gas Company

P.O. BOX 1492  
EL PASO, TX 79978

PAYABLE AT  
CITIBANK DELAWARE  
A SUBSIDIARY OF CITICORP  
ONE PENN'S WAY  
NEW CASTLE, DE 19720

CONTROL NO.

232 CBD

62-20  
311

08/18/94  
Date

PAY TO THE ORDER OF

NMED WATER QUALITY MANAGEMENT  
P O BOX 2088  
SANTA FE

NM 87504

PAY AMOUNT

\$100.00

Void After 1 Year

**e** John M. Green

Authorized Signatory

GW 173

**Gallup Compressor Station  
Discharge Plan**

**RECEIVED**

**JUL 23 1994**

**OIL CONSERVATION DIV.  
SANTA FE**



**Prepared for:**

**New Mexico Oil Conservation Division**

**August 17, 1994**

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, TX 79978  
(915) 541-3242**

**Gallup Compressor Station  
Discharge Plan**

This Discharge Plan has been prepared in accordance with New Mexico Oil Conservation Division (OCD) "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants".

**I. General Information**

El Paso Natural Gas (EPNG) Company operates a natural gas compressor station known as "Gallup Compressor Station".

**A. Discharger:**

All correspondence regarding this discharge plan should be sent to EPNG headquarters at the address below:

Donald N. Bigbie  
Transmission Operations Vice President  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978  
(915) 541- 5215

**B. Local Representative**

A copy of all correspondence and all questions should be directed to the Manager of Environmental Compliance Engineering:

Thomas D. Hutchins  
Compliance Engineering Manager  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, TX 79978  
(915) 541-3242

**C. Location of Discharge**

Gallup Compressor Station is located in the NE/4 of Tenative Section 9, Township 19-N, Range 17-W, in McKinley County, New Mexico. The station is approximately 31 miles north of Gallup, New Mexico, and 1/2 mile east of U.S. Highway No. 666. Tab "A" shows a highway map to the site.

#### **D. Type of Natural Gas Operation**

The compressor facility pressurizes Natural Gas from EPNG's 1200, 1201, 1202 and 1208 pipelines. Both streams flow through horizontal filters/separators before going to the compressors. The installation includes one GE Frame 5 17,660 horsepower turbine and one GE Frame 3 7,190 horsepower turbine, and their associated equipment (See Mechanical Flow Diagram attached as Tab "B").

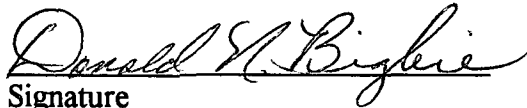
Major operational components are:

- one GE Frame 5 turbine and one GE Frame 3 turbine
- four inlet filters/scrubbers
- one fuel gas filter
- one auxiliary electric generator
- one lube oil storage tank (210 BBL)
- one above ground used oil tank (10,000 gallon)
- one above ground ambitrol tank ( 4,000 gallon)
- one above ground waste liquids tank (1,000 gallon)

Discharges from each of the above components are discussed separately in section II of this application.

#### **Affirmation**

I hereby certify that I am familiar with the information contained in this application submitted for the Gallup Compressor Station Discharge Plan and that such information is true, accurate, and complete to the best of my knowledge and belief.

  
Signature

DONALD N. BIGBIE

Printed Name

8/17/94

Date

VICE PRESIDENT  
TRANSMISSION OPERATIONS ENGINEERING

Title

## **II. Plant Processes**

### **Compressors:**

The compressors have been installed in such a manner as to ensure containment of drips, spills, and washdown water. Any spill or washdown water from cleaning operations will be contained and discharged into a 1,000-gallon above ground tank.

Used oil is generated from the standby generator at a rate of approximately 25 gallons per 4,000 hours of operation. This oil is drained into the 1,000-gallon above ground storage tank and hauled from the site by an oil recycler.

### **Inlet & Fuel Gas Scrubbers:**

Four suction scrubbers, one on the inlet side of the Frame 5 compressor unit, and three on the inlet side of the Frame 3 compressor unit, remove natural gas liquids. Natural gas liquids generated by these scrubbers are discharged to a 10,000-gallon above ground tank. The volume of liquids will vary.

A fuel gas filter is at the inlet to the fuel gas line for all four turbines. Any natural gas liquids from this scrubber will also be discharged to the 10,000-gallon above ground tank.

### **Lube Oil Storage Tank:**

A 210 BBL lube oil storage tank is located on-site to supply oil to both turbines.

### **Ethylene Glycol**

A 4,400 gallon ethylene glycol storage tank is located on site. Ethylene glycol is used to cool the turbines.

### **Underground Drain Lines:**

All underground piping and drain lines carrying either chemical commercial products or waste liquids have been hydrostatically tested.

### **Effluent Handling and Site Housekeeping:**

The Gallup Compressor Station has State-of-the-Art equipment and controls. This equipment minimizes on-site chemicals and prevents and mitigates any unplanned releases to the environment. Regularly scheduled maintenance procedures also help to ensure that the equipment remains functional and thus the possibility of spills or leaks is further minimized. The MSDS sheets for all chemicals handled at the station are



attached as Tab "C".

This site is visited on a weekly or as-needed basis by EPNG personnel. Leaks, spills, and drips are managed as follows:

Small spills are absorbed by the soil or commercial absorbent pads. Any contaminated soil is excavated and contained in drums for recycle or off-site disposal.

Large spills are contained by the drain system or with commercial absorbent pads. Where possible, liquids and solid waste are segregated and managed in separate drums for recycle or disposal.

The waste generated from either scenario above is characterized and recycled if possible. If not recyclable, the waste is disposed according to its analytical profile.

Verbal and written notification of leaks or spills are made to the Bureau of Indian Affairs and OCD in accordance with BIA--Navajo Area Office Procedures for Undesirable Events Response (Oil and Gas Operations) and OCD Rule 116. Any release of a chemical with a reportable quantity regulated by Title 40 Code of Federal Regulations Parts 300 through 372 are reported to the National Response Center, and where applicable NMED.

### **III. Effluent and Solid Waste Disposal**

There is minimal liquid and solid waste generated. All effluent and solid waste is characterized and managed for recycle, if possible, or disposal according to their analytical profile. Effluent and solid waste that cannot be recycled is disposed of in facilities approved by OCD, NMED or other jurisdictional agencies.

On-site effluent disposal will utilize the double-lined evaporation pond associated with the station's air intake cooling system. This pond will be used for evaporative disposal of air cooling water at an estimated rate of 10,000 gal/day. This impoundment will be provided with a leak detection system that will be periodically inspected for any leaks in the lined pond.

The double-lined evaporation pond will be constructed using only top quality materials. The top liners will be high density polyethylene (60-mil., minimum), 8130-XR-5 Material (30 mil., minimum), industrial grade reinforced chlorosulfonated polyethylene (Hypalon, 36 mil. minimum), polypropylene (40 mil., minimum), or scrimreinforced polypropylene (45 mil., minimum). The bottom liner will be PVC (30 mil., minimum), high density polyethylene (30 mil., minimum), chlorinated polyethylene (30 mil., minimum), chlorosulfonated polyethylene (30 mil., minimum), polypropylene (30 mil., minimum), or scrimreinforced polypropylene (45 mil., minimum). The geonet will be a

high density polyethylene (200 mil., minimum). The geotextile will be a heavyweight non-woven polypropylene geotextile (16 oz/yd., minimum).

The leak detection system will have a drain line which will be a 4 inch, PVC, perforated pipe. Pipes within the bottom liner containment volume (leak detection field) will be perforated. Pipe located between the leak detection well and the pond shall have solid walls (no perforations). The pipes will be installed to the grades shown in the design drawings ( Attached as Tab "D").

The site also has a septic tank to treat domestic sewage. The septic system only receives sewage from one wash room with one toilet and one wash basin. This system was constructed in accordance with NMED guidelines for on-site disposal systems.

#### **IV. Site Characteristics**

Gallup Compressor Station is located within the Navajo Indian Reservation section of the Colorado Plateau physiographic province, in the southwest portion of the San Juan structural basin. Topographic relief within 1 mile of the site is approximately 402 feet with elevations ranging between 5928 and 6330 feet above sea level.

The area around the station is characterized by eolian and alluvial sediments of mixed origin. Groundwater is mostly obtained from water bearing units of the Mesaverde Group. Groundwater in this group is derived from local precipitation, recharging the various members of the Mesaverde Group. Stone et. al, (1983) and the State Engineers Office report no wells within a 11.3 km vicinity of the facility; however, topographic maps indicate several wells within a 2 km radius from the facility.

##### **a. Geomorphology and Soils**

The compressor station is located in a relatively flat area with a gently sloping mountain range located approximately 0.675 km west of the station.

The major soil association in the area of the compressor site is the Hagerman-Travessilla association (Maker et. al, 1974). Maker et. al, classifies this association as occupying the nearly level to gently sloping mesa and ridge tops. The surface layer is brown, friable noncalcareous fine sandy loam or loam. It grades at a depth of three to six inches to a subsoil of reddish-brown sandy clay loam. A layer of limy, light brown sandy clay loam, about three inches thick, is usually present just above the bedrock. These soils average about 30 inches deep over sandstone, but may range from 20 to 40 inches in depth.

## **b. Regional Geologic Setting**

The Compressor Station is located within the west-central portion of the San Juan Basin (See Topographic Map attached as Tab "E"). The deepest portion of the basin contains up to 15,000 feet of Paleozoic and Mesozoic sediments. Late Cretaceous age rocks outcrop in the mountains west of the compressor station (Stone et. al, 1983). The following geologic description examines the different units of the Mesaverde Group which underlies the compressor station.

### Cliff House Sandstone

The Cliff House Sandstone is the upper most member of the Mesaverde Group. The Cliff House forms the top or eastern flanks of the Hogback monocline marking the edge of the central basin. The Cliff House unconformably overlies the Menefee Formation. The Cliff House is composed of fine to very fine-grained, immature to submature subarkose. The unit varies from 20 to 245 feet thick throughout the basin.

### Menefee Formation

The Menefee Formation conformably or disconformably overlies the Point Lookout Formation. The Menefee Formation is the middle unit of the Mesaverde Group. This unit crops out in the center of the Hogback monocline west of Farmington, New Mexico, and in a vast area of the Chaco slope. The Menefee Formation consists of two separate members based on the presence or absence of coal: the basal Clearly Member (coal bearing) and the upper Allison Member (non-coal bearing). The Menefee Formation is composed of interbedded claystone, carbonaceous siltstone and shale, coal, and sandstone. The thickness of the Menefee Formation varies from 400 to 1,000 feet.

### Point Lookout Sandstone

The Point Lookout Sandstone is the lowest member of the Mesaverde Group. The Point lookout is exposed in the Hogback monocline west of Farmington, New Mexico. The unit is split into two units along the southern margin of the basin by the Satan Tongue of the Mancos Shale. The lower portion is referred to as the Hosta Tongue while the upper portion is referred to as the main body of the Point Lookout Sandstone. The Point Lookout is composed of very fine to medium-grained, immature to submature, lithic arkose to arkose. The thickness of this unit varies from 40 to 415 feet. The Point Lookout lies conformably on the Mancos Shale.

## **c. Local Geology**

The Gallup Compressor Station is located on flat to relatively flat plains north of Gallup,

New Mexico, and 1/2 mile east of U.S. Highway 66 on the Navajo Indian Reservation. The facility has five (5) water wells, all of which have been capped and abandoned. The drillers logs for these wells report that up to 1,240 feet of alternating sand and shale with some clay were encountered.

#### **d. Regional Groundwater**

Three major groundwater systems are present in the Cretaceous and younger-age sedimentary deposits of this area of the San Juan Basin (Stone et. al, 1983). These aquifers are:

1. Confined aquifers within the Cretaceous and Tertiary sandstone units.
2. Water-table aquifers in the Cretaceous and Tertiary sandstone units near their outcrop areas.
3. Water-table aquifers in Quaternary alluvium, in river valleys and their tributaries.

##### Cretaceous units

Occurrence of groundwater resources associated with Cretaceous units is a function of the distribution of sandstone beds within these units. Recharge is dependent upon outcrop distribution, elevation, climate of the outcrop area, lithologic characteristics of the unit and leakage from other units. Hydraulic conductivity is usually low due to the fine-grained textures characteristic of these sediments.

Groundwater quality in Cretaceous sandstone aquifers is controlled by several factors. Total dissolved solids (TDS) concentrations increase as a function of increasing groundwater residence time and reduced transmissivity of aquifer materials. Fresh water is associated with low transmissivity zones. Groundwater moving along the sandstone-shale interfaces common to these rocks tend to exhibit increased TDS concentrations (Stone et. al, 1983). Water from these confined aquifers is suitable for stock and domestic use in some areas, although in most cases, it is not considered a major source.

##### Tertiary units

Groundwater occurrence in Tertiary units is associated with the distribution of sandstone beds within these units. Groundwater recharge occurs through formations exposed along the flanks of the Nacimiento Uplift and on the broad plateaus along the central part of the basin. Recharge amount to Tertiary aquifers is higher than that of Cretaceous aquifers due to broader exposures in areas of high precipitation. Groundwater in these aquifers flows from upland recharge areas to discharge areas along canyon floors. Springs and seeps result due to regional topography and geomorphic controls. The hydraulic conductivity of

the Tertiary sandstones varies significantly, as a function of grain size, sorting and cementation. The hydraulic gradient is controlled by topography, but the structural attitude of formation can alter the flow direction.

Tertiary sandstone aquifers have generally lower TDS concentrations than the Cretaceous aquifers (Stone et. al, 1983), and commonly provide major sources of water for domestic and agricultural usage. The complex intertonguing of sandstone and shale units is the primary influence on specific conductance, which can be as high as 10,500  $\mu\text{mho/cm}$ .

#### Quaternary units

Quaternary age aquifers occur primarily as valley fill in the major river valleys and consist of gravel, sand, silt, and clay. In arroyos, the groundwater quality and quantity is highly variable. Where available, water from this source is used for stock, irrigation and domestic purposes.

#### **e. Local Groundwater**

According to topographic maps published by the New Mexico Oil Conservation Division to support "Vulnerable Area Order", R-7940-C, Gallup Compressor Station is located outside the vulnerable zone. Depth to water, at the facility ranges between 317 to 810 feet below the surface.

The State Engineers office and Stone et. al (1983) report no wells within a one mile radius. Photographs dated June 1981, show two (2) small ranches approximately 1/2 mile from the stations property line. It is uncertain if these ranches have a private water well.

EPNG drilled five wells between March, 1953, and July, 1972. Wells #1 and #2 were drilled to depths of 375 and 365 feet, respectively, although they were later abandoned. Wells #3, #4, and #5 were drilled to depths of 775, 1,131 and 1,240 feet, respectively and were also later abandoned.

Water quality data from taken Wells #3, #4, and #5 when they were still producing is presented in Table 1. The water samples were collected on January 1, 1979.

#### **f. Surface Water Hydrology and Flooding Potential**

Gallup Compressor Station is located in flat to relatively flat regions of McKinley County, New Mexico. There are no permanent surface waters in the vicinity of the plant which would add to the flooding potential for the facility. Nine flooding events occurred in McKinley County between the years of 1959-1979 (Williams, 1981). Therefore, plant flooding potential is negligible since no surface waters exist near the facility.

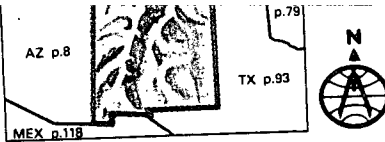
**TABLE 1**  
**GALLUP COMPRESSOR STATION**  
**WATER QUALITY DATA**

| <b>PARAMETERS</b>      | <b>WELL No. 3</b>      | <b>WELL No. 4</b>      | <b>WELL No. 5</b>      |
|------------------------|------------------------|------------------------|------------------------|
| Conductivity           | 898 $\mu\text{mho/cm}$ | 655 $\mu\text{mho/cm}$ | 913 $\mu\text{mho/cm}$ |
| Total Hardness         | 2 ppm                  | 2 ppm                  | 4 ppm                  |
| Ph                     | 9.9                    | 8.7                    | 8.6                    |
| TDS                    | 748 ppm                | 562 ppm                | 788 ppm                |
| Mg-CaCO <sub>3</sub>   | 2 ppm                  | 2 ppm                  | 4 ppm                  |
| Na                     | 205 ppm                | 154 ppm                | 219 ppm                |
| Fe                     | 0.1 ppm                | 0.15 ppm               | 0.1 ppm                |
| Alka-CaCO <sub>3</sub> | 55 ppm                 | 5 ppm                  | 5 ppm                  |
| Alkalinity             | 410 ppm                | 300 ppm                | 390 ppm                |
| Cl                     | 7 ppm                  | 7 ppm                  | 7 ppm                  |
| F                      | 0.84 ppm               | 0.5 ppm                | 0.98 ppm               |
| SiO <sub>4</sub>       | 12 ppm                 | 9.8 ppm                | 12 ppm                 |
| SO <sub>4</sub>        | 23.6 ppm               | 25 ppm                 | 74 ppm                 |

## REFERENCES

- Maker, H.J., Bullock, H.E., Jr., and Anderson, J.U., 1974. *Soil Associations and Land Classification for Irrigation, McKinley County*; U.S. Soil Conservation Service.
- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983. *Hydrogeology and Water Resources of San Juan Basin, New Mexico; New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.*
- Williams, J.L., 1986. *New Mexico in Maps, Second Edition*, UNM Press, New Mexico, p. 42-43 and p. 58-59.

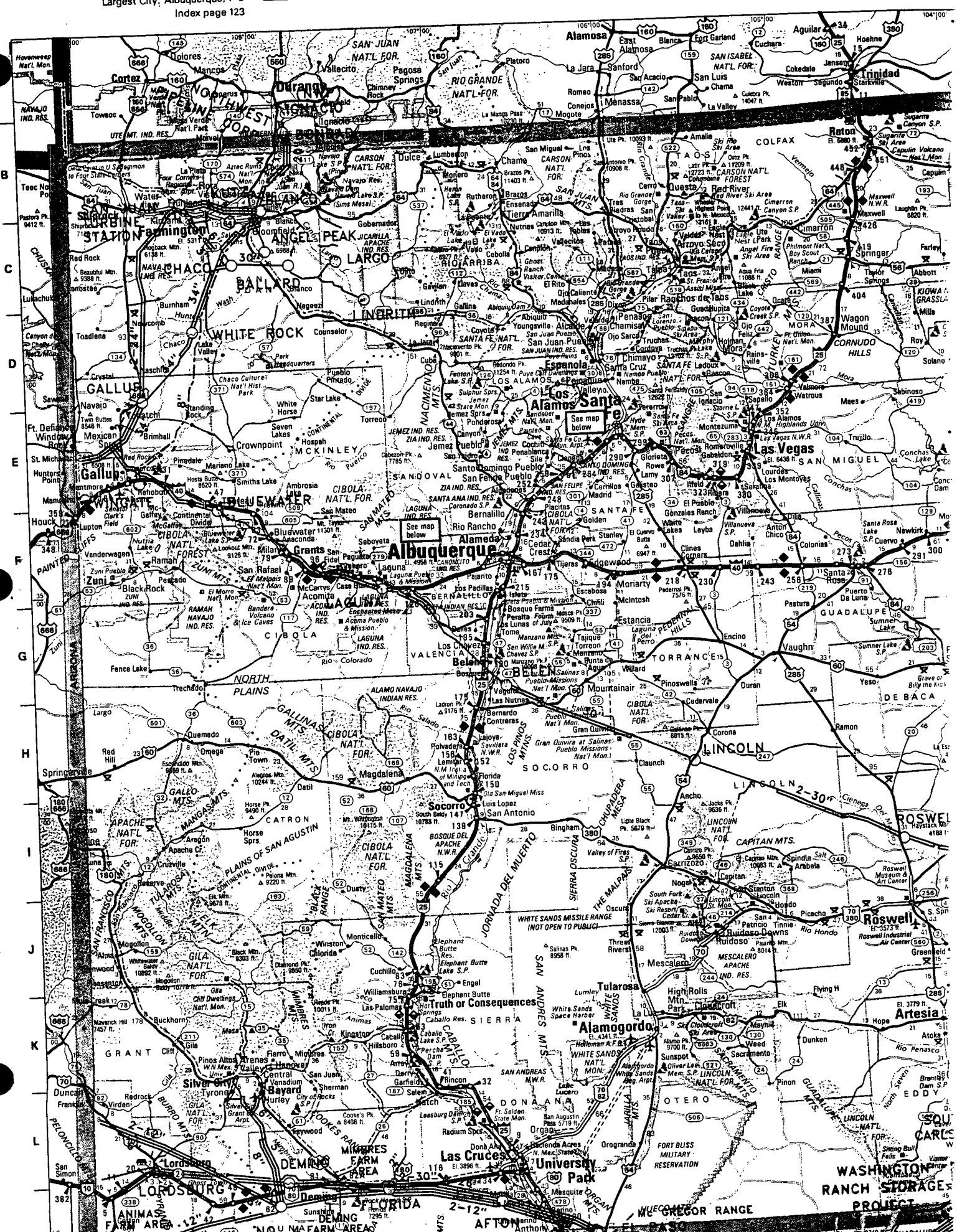
Land Area: 121,336 sq. mi. (5)  
 Population: 1,494,200 (37)  
 Dimensions: N-S 390 miles, E-W 350 miles  
 Highest Point: Wheeler Peak 13,161 ft., C-7  
 Capital: Santa Fe, E-5  
 Largest City: Albuquerque, F-5  
 Index page 123



Capitan Volcano National Park, M-9  
 Carlsbad Caverns National Park, M-9  
 El Morro National Monument, J-2  
 Gila Cliff Dwellings National Monument, J-2  
 Pecos National Monument, E-7  
 Taos, C-7  
 White Sands National Monument, K-6

Mileage in red between red  
 arrowheads, in black between  
 intersections. Some interchange  
 numbers indicate mileage.

Albuquerque 22  
 Clovis 22  
 Las Cruces 6  
 Roswell 11  
 Santa Fe 27







EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TENNECO HYDRAULIC JACK OIL

EPNG MSDS NO: 01446  
PRODUCT ITEM NO: 0011939

DATE ISSUED: 03/01/1986  
LAST REVISED DATE: / /

MANUFACTURER

NAME: TENNECO OIL COMPANY P & M  
ADDRESS: P.O. BOX 2511

CITY: HOUSTON,  
STATE: TX ZIP: 77001

EMERGENCY TELEPHONE: (800) 424-9300  
24 HOUR TELEPHONE: (713) 757-3113

NFPA HEALTH: 1 FIRE: 1 REACTIVITY: 0  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA TRADE SECRET: N  
MOLECULAR WEIGHT: NA TIER II REPORTABLE:

BOILING POINT: OVER 350F (176.6) EVAPORATION RATE: NOT DETERMINED  
MELTING POINT: NA VAPOR PRESSURE: NOT DETERMINED  
VISCOSITY: NA SPECIFIC GRAVITY: 0.860  
VAPOR DENSITY: 12 APPROX. WATER SOLUBILITY: NEGLIGIBLE

FLASH POINT : 300 F (148.9 C) METHOD: COC  
AUTOIGNITION : NOT DETERMINED LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TENNECO HYDRAULIC JACK OIL

SECTION I MATERIAL IDENTIFICATION

MATERIAL/TRADE NAME: Tenneco Hydraulic Jack Oil  
(Lincoln and Napa Lifting Equipment)

SYNONYMS: Hydraulic Oil

CHEMICAL FAMILY/FORMULA: Petroleum Hydrocarbon

SECTION II INGREDIENTS AND HAZARDS

COMPOSITION % TOXICITY DATA

Conventionally refined  
naphthenic base oil

CAS #: 064742-53-6 <100% Rats, Oral LD50-204 gm/kg

Additives (No one additive exceeds 1%. None are considered  
carcinogenic.) Rat, Dermal LD50-15 gm/kg

SECTION III PHYSICAL DATA

BOILING POINT, 760mm/Hg: Over 350 F (176.6 C)

SOLUBILITY IN H<sub>2</sub>O, % by weight: Negligible

SPECIFIC GRAVITY, H<sub>2</sub>O=1: 0.86

EVAPORATION RATE, BUTAL ACETATE=1: Not determined

VAPOR PRESSURE, mm/Hg: Not determined

VAPOR DENSITY, Air=1: 12 approximate

VOLATILES, % By Volume: Negligible

APPEARANCE AND ODOR: Clear amber color oily liquid with mild  
petroleum odor.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT AND TEST METHOD: 300 F (148.9 C) COC

EXTINGUISHING MEDIA: Water spray (fog), Dry Chemical, Foam, Halon,  
CO<sub>2</sub>. Water stream may splash burning liquid, spreading fire.

SPECIAL FIRE FIGHTING PROCEDURES: Class IIIB combustible liquid.  
Use air supplied breathing equipment for fighting interior fires.  
Cool fire exposed containers with water.

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID:

Avoid strong oxidizers such as chlorine and oxygen, heat and  
sources of ignition.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TENNECO HYDRAULIC JACK OIL

HAZARDOUS DECOMPOSITION PROUDUCTS:

Combustion produces carbon monoxide/dioxide along with thich black smoke.

SECTION VI HEALTH AND HAZARD INFORMATION

Inhalation hazard is negligible unless heated to produce vapors or as as mist. Vapors or misted oil can irritate the mucous membranes and cause pulmonary irritation, dizziness, and nausea. Eye contact can cause irritation. Prolonged or repeated contact with the skin may cause irritation of the hair follicles and block sebaceous glands causing rashes, oil acne or dermatitis. Ingestion may irritate digestive tract but is generally not harmful unless in large quantities.

Possible aspiration hazard exists with low viscosity products which could cause pulmonary edema which can be fatal. Naphthemic oils, unless severely hydrotreated or solvent extracted, may contain plynuclear aromatics (PNAs) which have induced cancer in laboratory animals. Prolonged or repeated skin contact may be carcinogenic to man and result in skin cancer. Inhalation of oil mists containing naphthenic materials may also present a cancer hazard

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash with soap and water or use waterless hand cleaner after skin contact. Launder contaminated clothing before reuse.

EYE: Flush with water for 15 minutes, getting under eyelids. Contact physician if difficulty or irritation persists contact a physician for assistance.

INHALAITON: Mists or vapors - remove from area of exposure to fresh air. If breathing difficulty or irritation persists, contact a physician for assistance.

INGESTION: DO NOT induce vomiting. Contact a physician for advice.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Remove sources of ignition, contain spill to smallest possible area. Stop leak if possible. Pick up small spills with absorbent materials such as papertowels, "oil dry", sand, or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent or remove remaining oil film.

WASTE DISPOSAL:

Waste may be disposed of by a licensed waste disposal company.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TENNECO HYDRAULIC JACK OIL

Contaminated absorbent materials may be disposed of in an approved landfill. Federal, state, and local regulations must be followed. Classified as an "oil" under Coast Guard regulations and Clean Water Act. Spills entering waterways that cause a sheen on the water surface must be reported to the U.S. Coast Guard National Resources Center -800/424-8802.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Respirators acceptable for mists and particulates recommended for protection from oil vapors or mists. Air supplied or self-contained breathing equipment recommended or concentration above 250 mg/m<sup>3</sup>.

PROTECTIVE CLOTHING:

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. Neoprene or nitrile gloves and clothing recommended to prevent skin contact.

OTHER PROTECTIVE MEASURES:

Provide explosion-proof ventilation where oils are heated or misted to meet TLV level. Employees must practice good personal hygiene, washing exposed skin areas several times daily and laundering contaminated clothing before reuse.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers below 120 F (48.8 C).

Keep away from oxidizing agents, excessive heat, sources of ignition.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PERFECT SEALING COMPOUND #4

EPNG MSDS NO: 00862  
PRODUCT ITEM NO: 0011945

DATE ISSUED: 06/16/1988  
LAST REVISED DATE: / /

MANUFACTURER

NAME: P.O.B. INC.  
ADDRESS: 11100 KENWOOD ROAD

CITY: CINCINNATI,  
STATE: OH ZIP: 45242

EMERGENCY TELEPHONE: (513) 793-6332  
24 HOUR TELEPHONE: (513) 793-6336

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: TRADE SECRET: N  
MOLECULAR WEIGHT: TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PERFECT SEALING COMPOUND #4

SECTION I MATERIAL IDENTIFICATION

MANUFACTURER'S NAME AND ADDRESS:

P.O.B. Inc.

11100 Kenwood Road, Cincinnati, Ohio 45242

EMERGENCY TELEPHONE NUMBER 513-793-6332

TELEPHONE NUMBER FOR INFORMATION: 513-793-6336

IDENTIFY (AS USED ON LABEL AND LIST): Perfect Seal No. 4

SECTION II INGREDIENTS AND HAZARDS

| HAZARDOUS COMPONENTS | OSHA<br>PEL | ACGIH<br>TLV | OTHER<br>LIMITS<br>RECOMMENDED | %<br>(OPTIONAL) |
|----------------------|-------------|--------------|--------------------------------|-----------------|
| Isopropanol Alcohol  | 67-63-0     | 400PPM       | Flammable                      | 24.1            |
| Propylene Glycol     |             |              |                                |                 |
| Methyl Ether         | 107-98-2    | 100PPM       | Flammable                      | 4.8             |

NON HAZARDOUS

Castor Oil 8001-79-4

Soyabean Oil 68152-81-8

Celite 322 7631-86-9

Celite T38 1344-95-2

SW10 Fibra-Cel 65-996-61-4

SECTION III PHYSICAL DATA

BOILING POINT: 195 F

SPECIFIC GRAVITY (H2O=1): 1.03

VAPOR PRESSURE (MM HG): 29 @ 68 F

MELTING POINT: N.A.

VAPOR DENSITY (AIR=1): 2.5

EVAPORATION RATE (Butyl Acetate=1): 1.5

WATER SOLUBILITY IN WATER: .86

APPEARANCE AND ODOR: Brown-Mild.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): 54 F ASTM D93-71

FLAMMABLE LIMITS

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PERFECT SEALING COMPOUND #4

LEL: 3.24 UEL: 20.6

EXTINGUISHING MEDIA:  
CO2, Dry Chemical Foam

SPECIAL FIRE FIGHTING PROCEDURES:  
Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Cans will rupture from extreme heat.

SECTION V REACTIVITY DATA

STABILITY:  
Stable.

INCOMPATIBILITY (MATERIALS TO AVOID):  
Hydrofluoric acid.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:  
Carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION:  
Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

ROUTE(S) OF ENTRY:  
Inhalation, Skin.

HEALTH HAZARDS (ACUTE AND CHRONIC):  
24% of this product contains 91% Isopropanol-effects of chronic over-exposure for Isopropanol 99% has been suggested as a cause of the following effects in humans: Kidney damage.

CARCINOGENICITY: No  
NTP: N.A.  
IARC MONOGRAPHS: N.A.  
OSHA REGULATED: TLV

SIGNS AND SYMPTOMS OF EXPOSURE  
EYES:  
Blurred vision-skin irritation-breathing-headache-swallowing-vomiting.

EMERGENCY AND FIRST AID PROCEDURES:  
If on skin, wash exposed area with soap and water .  
If in eyes, flush with large amounts of water, get medical attention.  
If breathing, if affected, remove individual to fresh air.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PERFECT SEALING COMPOUND #4

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate all ignition sources. Build dike or dam to contain material. Add clays sand or vermiculate to material. Use a plastic scoop to pick up the material.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):

Respiratory only if TLV of any component is exceeded.

VENTILATION

MECHANICAL (GENERAL):

To maintain exposure below TLVs

PROTECTIVE GLOVES:

Gloves

EYE PROTECTION:

Safety Glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Normal.

OTHER PRECAUTIONS:

Water may be used to cool closed containers to prevent build-up and explosion when exposed to extreme heat.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WD-40

EPNG MSDS NO: 00021  
PRODUCT ITEM NO: 0012091

DATE ISSUED: 09/20/1984  
LAST REVISED DATE: 09/20/1984

MANUFACTURER

NAME: WD-40 COMPANY  
ADDRESS: 1061 CUDAHY PL.  
P.O. BOX 80607  
CITY: SAN DIEGO  
STATE: CA ZIP: 92138

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: (619) 275-1400

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: N/A  
MOLECULAR WEIGHT: N/A

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 300  
MELTING POINT: N/A  
VISCOSITY: N/A  
VAPOR DENSITY: CA 4-5\*

EVAPORATION RATE: CA 0.1\*  
VAPOR PRESSURE: CA 5\*  
SPECIFIC GRAVITY: 0.800  
WATER SOLUBILITY: INSOLUBLE

FLASH POINT : 110 F  
AUTOIGNITION : 450-550F

METHOD: TOC  
LEL: >0.8 UEL: 6

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

SLIGHTLY CLOUDY, LIGHT AMBER LIQUID; SLIGHT CHARACTERISTIC ODOR.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WD-40

SECTION I MATERIAL IDENTIFICATION

Descriptions:

Aliphatic petroleum spirits solution of paraffinic oil, containing corrosion and rust inhibitors. (Also available in pressurized aerosol spray containers)

SECTION II INGREDIENTS AND HAZARDS

Aliphatic petroleum distillate (Stoddard Solvent; see MSDS #334)

Petroleum base oil CAS#008012951

Proprietary corrosion inhibitors, rust preventatives, and wetting agents. ("None of which constitute any special hazard from a toxicity or handling standpoint," according to the manufacturer.)

\*ACGIH (1984) TLV; STEL is 200 ppm. Current OSHA PEL is 500 ppm.

NOTE: Aerosol spray can contains 3 parts WD-40 to 1 part of A-70 hydrocarbon propellant (liquified petroleum gas; compare MSDS #380, #481); pressurized at 50 psig at 70F.

>70% - Aliphatic petroleum distillate - 8-hr TWA 100 ppm\*

>20% - Petroleum - 8-hr TWA 5 mg/m3 (mineral oil mist)

Proprietary corrosion inhibitors, rust preventatives, and wetting agents - Balance

SECTION III PHYSICAL DATA

Initial boiling point, 1 atm, deg F --- 300

Specific gravity, 70 F (H2O=1) --- 0.80

Vapor pressure at 25 C, mm Hg ----- Ca 5\*

% Volatile (by Vol.) ---- 74

Vapor density (Air=1) ----- Ca 4-5\*

Evaporation rate (BuAc=1) --- Ca 0.1\*

Insoluble in water (Forms unstable emulsion)

Pour point, deg F --- <-100

Appearance and Odor: Slightly cloudy, light amber liquid; slight characteristic odor.

\* Based on ASTM D235 Petroleum Spirits (mineral spirits).

SECTION IV FIRE AND EXPLOSION DATA

Flash Point and Method: 110 f (min) (TOC)

Autoignition Temp.: 450-550 F

Flammability Limits in Air: % by Vol.

Lower: >0.8

Upper: 6

Extinguishing media: CO2, dry chemical foam. Use of a direct stream of water on burning liquid can scatter flames. (Spray cans may

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WD-40

explosively rupture if heated.) Petroleum distillates in this formulation are a dangerous fire hazard and a moderate explosion hazard when exposed to heat or flame. When significant amounts of this material are involved in a fire, fire fighters should use self-contained breathing apparatus.

\*Spray can propellant flammable range. Propellant considered extremely flammable.

SECTION V REACTIVITY DATA

WD-40 is a stable mixture for handling and storage at room temperature. It does not polymerize. This combustible liquid is incompatible with strong oxidizing agents.

Thermal-oxidative degradation can produce toxic vapors and gases, including carbon monoxide.

Prolonged immersion in WD-40 can cause certain types of rubber to swell. Clear polycarbonate and polystyrene may stress craze or crack in contact with WD-40.

SECTION VI HEALTH AND HAZARD INFORMATION

Effects of chronic exposure are unknown.\* This product should be treated as petroleum spirits which in excess can cause injury. It is a central nervous system depressant. Excessive inhalation of vapors and mists may cause anesthesia, headache, nausea, nose and throat irritation. Prolonged or repeated skin contact will cause defatting and irritation. Eye contact can cause irritation.

Ingestion can cause irritation, nausea, vomiting and diarrhea.

Aspiration into the lungs can cause chemical pneumonitis.

First Aid: Eye Contact: Flush well with water immediately; get medical help if irritation persists. Skin Contact: Wash exposed skin areas with soap and water. Remove contaminated clothing.

Inhalation: Remove to fresh air. Restore and support breathing as required. Get medical help for serious exposure.

Ingestion: DO NOT INDUCE VOMITING! Call physician promptly! Treat as for petroleum spirits ingestion. If spontaneous vomiting occurs, position head lower than trunk to resist aspiration.

\*The proprietary nature of a minor part of this product may require caution in handling.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Treat as petroleum spirits: Remove sources of ignition.

Supply ventilation. Notify safety personnel of large spills. Contain spill. Recover liquid when possible. Absorb small spills and residues with vermiculite, dry sand or other suitable absorbent. Pick up using non-sparking tools and place in appropriate container for disposal. Avoid discharging directly into sewers or surface waters.

Disposal: Incinerate waste material (not aerosol spray containers!) or place in an approved landfill. Follow Federal, State and Local

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WD-40

regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Provide explosion-proof general ventilation to meet TLV requirements. Local exhaust ventilation may be needed if material is heated, misted or sprayed. Rubber or polyvinyl gloves should be used to prevent prolonged or repeated skin contact. Wear chemical safety glasses where spraying or splashing of liquid is possible to prevent eye contact. Have an eyewash station available near workplace if splashing is probable. Wear clean work clothing; remove WD-40 contaminated clothing promptly (health and fire hazard) and launder before reuse.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool area away from oxidizing agents and away from sources of heat or ignition. Prevent static sparks. Prevent physical damage to containers. Storage area should have ventilation. For aerosol cans: Store below 120F. Do not incinerate aerosol containers. Use only with proper ventilation. Follow good housekeeping practices with this material. Use with good ventilation. Do not take internally. Avoid inhalation of mist, spray particles or vapors. Prevent eye contact and prolonged or repeated skin contact. Follow good hygienic practice in the use of this material.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MALTBY 616-15A FAST PENETRANT

EPNG MSDS NO: 02110  
PRODUCT ITEM NO: 0012138

DATE ISSUED: / /  
LAST REVISED DATE: / /

MANUFACTURER

NAME: MALTBY INT'L COMPANY  
ADDRESS: 11132-0 FLEETWOOD ST

CITY: SUN VALLEY  
STATE: CA ZIP: 91352

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: <0.0F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: HEAVY THAN AIR

EVAPORATION RATE: FAST THAN ETHER  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: NA

FLASH POINT : < 20 F  
AUTOIGNITION : NA

METHOD: TOC  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: Y LIQUID: Y GAS: Y SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MALTBY 616-15A FAST PENETRANT

SECTION I MATERIAL IDENTIFICATION

PRODUCT CLASS (Aerosol): Lubricants

CODE IDENTIFICATION: 616-15A

TRADE NAME: 616-15A Fast Penetrant

SECTION II INGREDIENTS AND HAZARDS

| INGREDIENT                        | %  | TLV PPM | LEL           | CAS #       |
|-----------------------------------|----|---------|---------------|-------------|
| Propane Hydrocarbon Propellant    | 5% | 1000    | 2.3           | 000074-98-6 |
| Aerosol - Contents under pressure |    |         | 55 +/- 5 PSIG |             |

SECTION III PHYSICAL DATA

BOILING RANGE: Propellant Below 0.0 F

VAPOR DENSITY: Heavier than air

EVAPORATION RATE: Faster than Ether

\*Propellants

% VOLATILE BY WEIGHT: 6

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Propellant Below 20 F

LEL: See Section II

CONSUMER COMMODITY: ORM-D-AIR

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS:

DO NOT spray near open flame. Keep at room temperature as exposure to direct sunlight or other heat may cause bursting.

SPECIAL FIRE FIGHTING PROCEDURES:

Water may be ineffective - water may be used to keep fire exposed containers cool.

SECTION V REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: DO NOT STORE ABOVE 120 F.

HAZARDOUS DECOMPOSITION PRODUCTS: By open flame: Carbon Monoxide, Carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: (See section II )

EFFECTS OF OVEREXPOSURE: In a confined area vapors in high

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MALTBY 616-15A FAST PENETRANT

concentration are anesthetic. Irritant to skin and upper respiratory system. Overexposure may result in light-headedness, staggering gait, giddiness and possible nausea.

HARMFUL OR FATAL IF SWALLOWED.

CHRONIC: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

EMERGENCY AND FIRST AID PROCEDURES:

BREATHING: Remove patient to fresh air.

EYES: Flush with water for at least 15 minutes.

SKIN: Wash with soap and water.

SWALLOWING: Call a physician immediately. DO NOT induce vomiting.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Remove all sources of ignition, ventilate avoid breathing vapors and remove with inert absorbent.

WASTE DISPOSAL METHOD:

DO NOT Incinerate - Dispose in accordance with federal, state and local regulations regarding pollution.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Avoid breathing of vapor or spray mist.

VENTILATION: Provide local exhaust ventilation in volume and pattern to keep TLV of most hazardous ingredients in section II below acceptable limit, and LEL in section IV below stated limit.

PROTECTIVE GLOVES: Recommended for prolonged or repeated contact.

EYE PROTECTION: For prolonged use in close quarters recommend safety glasses with unperforated sideshields.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

DO NOT store above 120 F. Keep at room temperature as exposure to direct sunlight or heat may cause bursting.

KEEP AWAY FROM CHILDREN

DO NOT puncture or incinerate.

DO NOT spray near fire or open flame.

Communication of physical property, health, and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS Classification for this product.

HMIS      CLASSIFICATION      CODE



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MALTBY 616-15A FAST PENETRANT

HEALTH:

FLAMMABILITY:

REACTIVITY:

PERSONAL PROTECTION:

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED AND AS BEING ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPRA-SOLVO OIL

EPNG MSDS NO: 00134  
PRODUCT ITEM NO: 0012141

DATE ISSUED: 09/06/1978  
LAST REVISED DATE: / /

MANUFACTURER

NAME: A.W. CHESTERTON COMPANY  
ADDRESS: MIDDLESEX IND. PARK  
ROUTE 93  
CITY: STONEHAM  
STATE: MS ZIP: 02180

EMERGENCY TELEPHONE: (617) 438-7013  
24 HOUR TELEPHONE: (617) 438-7000

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: HEAVIER

EVAPORATION RATE: SLOWER  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: NA

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: Y SOLID:

REMARKS:

NON-FLAMMABLE COMPRESSED GAS

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPRA-SOLVO OIL

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

Mineral Spirits 10-20% 200 PPM 0.9%  
Chlorinated Hydrocarbon 40-55 450 PPM

SECTION III PHYSICAL DATA

Vapor Density: Heavier  
Evap. Rate: Slower  
% Vol.: 70-80

SECTION IV FIRE AND EXPLOSION DATA

DOT Category: Compressed gas, N.O.S. Non-flammable compressed gas  
Extinguishing Media: Foam, dry chemical, carbon dioxide.  
Unusual Fire and Explosion Hazards: Aerosol cans, when heated, area a potential explosion hazard.  
Special Fire Fighting Procedures: Use self contained breathing apparatus. Cool containers with water.

SECTION V REACTIVITY DATA

Stable  
Incompatibility: Open flames, hot surfaces, strong oxidants  
Hazardous Decomposition Products: Chlorine, hydrogen chloride, phosgene, carbon monoxide.

SECTION VI HEALTH AND HAZARD INFORMATION

Effects of Overexposure  
Inhalation: Effects can range from dizziness, headaches to loss of consciousness.  
Skin: Effects can range from dryness, irritation to dermatitis.  
Ingestion: May be harmful or fatal.  
Emergency and First Aid Procedures  
Ingestion: Do not induce vomiting. Call physician.  
Inhalation: Remove to fresh air. If breathing has stopped, apply artificial respiration. Call physician.  
Skin: Wash with soap and water. Replenish skin oils with lotion.  
Eyes: Flush with water for 15 minutes. See a physician if persists.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

If an unusually large number of aerosol cans are emptied, the area should be well ventilated. Workers should wear self contained breathing apparatus. Avoid ignition sources such as light switches. Pick up with absorbant material and transfer to suitable container for disposal. Check with Local, State and Federal regulations on the disposal of aerosol containers and petroleum lubricants.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPRA-SOLVO OIL

N/A SECTION VIII SPECIAL PROTECTION INFORMATION

N/A SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT DYSOL

EPNG MSDS NO: 00726  
PRODUCT ITEM NO: 0062205

DATE ISSUED: 08/01/1990  
LAST REVISED DATE: / /

MANUFACTURER

NAME: OLYMPIA LABS, INC.  
ADDRESS: 1491 LEE TREVINO  
SUITE F  
CITY: EL PASO,  
STATE: TX ZIP: 79936

EMERGENCY TELEPHONE: (316)524-5751  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: TRADE SECRET: N  
MOLECULAR WEIGHT: TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT DYSOL

SECTION I MATERIAL IDENTIFICATION

CHEMICAL NAME:  
1,1,1 Trichloroethane

CHEMICAL FORMULA:  
C2H3Cl3

MOLECULAR WEIGHT:  
133.4

TRADE NAME:  
Dysol  
SYNONYMS:  
Methyl Chloroform

DOT IDENTIFICATION NO.:  
UN 2831

SECTION II INGREDIENTS AND HAZARDS

| COMPONENTS/CHEM NAME    | CAS#     | % (WT) APPROX. | OSHA PEL |
|-------------------------|----------|----------------|----------|
| *1,1,1 trichloroethane  | 71-55-6  | 96.5           | 350 PPM  |
| *1,4 Diethylene dioxide | 123-91-1 | < 3.0          |          |
| 1,2 Butylene oxide      | 106-88-7 | > 0.5          |          |

The hazard information presented is based on tests conducted on this or similar mixtures.

\* Denotes chemical subject to reporting requirements of Section 313 of Title III of the 1985 Superfund Amendments and Reauthorization Act (SARA) and 40 CFR Part 372

SECTION III PHYSICAL DATA

APPEARANCE AND ODOR:  
Clear, colorless liquid, mildly sweet odor.

SPECIFIC GRAVITY:  
1.32 @ 25/25 C

BOILING POINT:  
165 F (74C)

VAPOR DENSITY IN AIR (AIR=1):  
4.6

VAPOR PRESSURE:  
100 mm Hg @ 20 C

% VOLATILE BY VOLUME:

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT DYSOL

100

EVAPORATION RATE (ETHER=1):

0.4

SOLUBILITY IN WATER:

0.07 gm/100gm @ 25 C

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED):

None (TCC)

FLAMMABLE LIMITS IN AIR:

7.5 - 15.0% (vol) @ 25 C.

EXTINGUISHING MEDIA:

Water, foam, dry chemical, carbon dioxide (CO2)

NFPA HAZARD RATINGS

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

UNUSUAL FIRE AND EXPLOSION HAZARD:

Concentrated vapors can be ignited by high intensity ignition sources. Firefighters should wear self-contained, positive-pressure breathing apparatus, due to thermal decomposition products, and avoid skin contact.

SECTION V REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid contact with open flame, electric arcs, or other hot surfaces which can cause thermal decomposition.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong alkalis, oxidizers, and reactive metals (i.e., aluminum, potassium, sodium, etc). Refer to Section IX for additional information on aluminum

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen chloride, phosgene, chlorine.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT      DYSOL

TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace.)

1,1,1 trichloroethane    ACGIH: 350 ppm TWA (8 hr), 450 ppm STEL

                             OSHA : 350 ppm TWA (8 hr), 450 ppm STEL

(Odor threshold approximately 100 ppm; causes olfactory fatigue)

Effects described in this section are believed not to occur if exposures are maintained at or below approximate TLV's. Because of the wide variation in individuals susceptibility, these exposure limits may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Acute and chronic liver disease and rhythm disorders of the heart.

ACUTE TOXICITY/PRIMARY ROUTES OF EXPOSURE:

Inhalation, Skin Absorption.

INHALATION:

Major potential route of exposure. Minimal effects observed below 1000 ppm; dizziness, drowsiness, and throat irritation at levels above 1000ppm. Unconsciousness and death possible at levels above 10,000 ppm. Blood pressure depression, cardiac sensitization, and ventricular arrhythmia can result from the exposure to near-anesthetic levels. Studies in laboratory animals have shown 1,1,1 trichloroethane in aerosol form to be more acutely toxic than 1,1,1 trichloroethane vapor.

SKIN:

Prolonged or repeated skin contact can cause irritation, defatting of skin, and dermatitis. Absorption through intact skin is possible if contact with liquid is prolonged. 1,4 Diethylene dioxide as a pure substance is readily absorbed through intact skin.

EYES:

Liquid can cause slight temporary irritation with slight temporary corneal injury. Vapors can irritate eyes.

INGESTION:

Single dose toxicity is low to moderate. If vomiting occurs, 1,1,1 trichloroethane can be aspirated into the lungs, which can cause chemical pneumonia and systemic effects.

FIRST AID



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT     DYSOL

INHALATION:

Remove to fresh air. If breathing has stopped, administer artificial respiration. Call a physician.

SKIN:

Remove contaminated clothing and shoes. Wash exposed area with soap and water. Wash contaminated clothing before reuse.

EYES:

Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

INGESTION:

DO NOT induce vomiting. Contact physician or emergency medical facility immediately.

NOTE TO PHYSICIAN:

Adrenalin should NEVER be given to persons overexposed to 1,1,1 trichloroethane.

CHRONIC TOXICITY

The findings of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death.

Chronic overexposures to 1,1,1 trichloroethane and this mixture have caused liver toxic effects in experimental animals.

Carcinogenicity: The available data indicates that 1,1,1 trichloroethane and this mixture are not carcinogenic in laboratory animals.

1,1,1 trichloroethane is not listed on the OSHA, IARC, or NTP carcinogen lists.

Reproductive Toxicity-Three studies have been performed on laboratory animals to evaluate the effects of 1,1,1 trichloroethane on reproduction and fetal development. Two of the three studies indicate no reproductive toxicity. The third study noted delays in normal development, but these delays did not affect later life.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. If spill occurs indoors, turn off air conditioning and/or heating system, to prevent vapors from contaminating entire building. Clean up area (wear protective equipment-refer to Section VIII) by mopping or with absorbent material and place in closed container for disposal. Avoid contamination of ground and surface waters. DO NOT flush to sewer. Reportable Quantity (RQ) is 1000lbs.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT DYSOL

Notify National Response Center (800-424-8802) of uncontrolled spills in excess of RQ.

WASTE DISPOSAL METHOD:

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Where vapor concentration exceeds or is likely to exceed 350 ppm, a NIOSH/MSHA approved organic vapor type respirator is acceptable. A NIOSH/MSHA approved self-contained breathing apparatus or air line respirator, with full face piece, is required for vapor concentrations above 1,000 ppm and for spills and/or emergencies. Follow any applicable respirator use standards or regulations.

VENTILATION:

DO NOT use in closed or confined space. Open doors and/or windows. Use ventilation to maintain exposure levels below 350 ppm.

SKIN PROTECTION:

Wear solvent-resistant gloves such as Vitron, polyvinyl alcohol, or equivalent. Solvent-resistant boots, apron, headgear and/or face-shield should be worn where splashing is possible.

EYE PROTECTION:

Wear safety glasses. Contact lenses should NOT be worn. Chemical goggles and/or face shields should be worn where splashing is possible.

HYGIENE:

Avoid contact with skin and avoid breathing vapors. DO NOT eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom.

OTHER CONTROL MEASURES:

To determine exposure level(s), monitoring should be performed regularly. Safety shower and eyewash station should be available.

NOTE:

Protective equipment and clothing should be selected, used, and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer or the Vulcan Chemicals Technical Service department.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

STORAGE AND HANDLING PRECAUTIONS:

Follow protective controls set forth in Section VIII when handling

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT DYSOL

this product. Store labeled and sealed containers in a cool, dry, well-ventilated area. Prevent water or moist air from entering storage tanks or containers. DO NOT cut or weld on empty or full drums. Aluminum equipment should NOT be used for storage and/or transfer. Vapors are heavier than air and will collect in low areas. DO NOT enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276.

Contact with aluminum parts in a pressurizable fluid system may cause violent reactions. Consult equipment supplier for further information.

DO NOT remove or deface label. DO NOT reuse drum without recycling or reconditioning in accordance with any applicable federal, state or local laws.

SARA Title III Hazard Categories: Immediate Health, Delayed Health.

TRANSPORTATION

DOT HAZARD CLASSIFICATION:

None by land or water transportation when containers are less than 1000 lbs each. ORM-A-when containers are more than 1000lbs each or when transported by air in any size container.

PLACARD REQUIRED:

None.

LABEL REQUIRED:

Label as required by OSHA Hazard Communication Standard, and any applicable state and local regulations. Use Harmful label when transported by air.

MEDICAL EMERGENCIES:

Call collect 24 hours a day for emergency toxicological information:  
(415) 821-5338

OTHER EMERGENCY INFORMATION:

(316) 524-5751 (24 hours)

DATE OF PREPARATION:

August 1, 1990

FOR ANY OTHER INFORMATION CONTACT:

Vulcan Chemicals  
Technical Service Department  
P.O. Box 530390  
Birmingham, AL 35253-0390  
800/873-4898

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DI-ELECTRIC SOLVENT    DYSOL

8 AM to 5 PM Central Time  
Monday through Friday

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LAVA INSTITUTIONAL PACK

EPNG MSDS NO: 01346  
PRODUCT ITEM NO: 0012247

DATE ISSUED: 11/01/1985  
LAST REVISED DATE: 04/10/1987

MANUFACTURER

NAME: PROCTER & GAMBLE  
ADDRESS: P.O. BOX 599

CITY: CINCINNATI  
STATE: OH ZIP: 45201

EMERGENCY TELEPHONE: (800) 543-4252  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA:  
MOLECULAR WEIGHT:

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT:  
MELTING POINT:  
VISCOSITY:  
VAPOR DENSITY:

EVAPORATION RATE:  
VAPOR PRESSURE:  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY:

FLASH POINT :  
AUTOIGNITION :

METHOD:  
LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LAVA INSTITUTIONAL PACK

SECTION I MATERIAL IDENTIFICATION

IDENTITY: Lava Institutional Pack

INGREDIENTS/CHEMICAL NAME: Soap, pumice, water, glycerine and minor ingredients.

SECTION II INGREDIENTS AND HAZARDS

HAZARDOUS INGREDIENTS AS DEFINED BY OSHA, 29 CFR 1910.1200:

NOTE: THIS PRODUCT IS NOT "HAZARDOUS" WITHIN THE MEANING OF THE OSHA HAZARD COMMUNICATION STANDARD.

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Moderate

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.18

PERCENT VOLATILE: 20%

APPEARANCE AND ODOR: Green gritty bar with light perfume.

SECTION IV FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA: Use water, CO<sub>2</sub> or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE HAZARDS: None

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI HEALTH AND HAZARD INFORMATION

ROUTE(s) OF ENTRY: Eye contact, ingestion

HEALTH HAZARDS (acute and chronic): Mild eye irritant

SIGNS AND SYMPTOMS: Instillation into the eyes may result in slight, transient effects similar to those produced by other mild toilet soaps. Accidental ingestion may result in mild gastrointestinal irritation with nausea vomiting or diarrhea.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

EMERGENCY AND FIRST AID PROCEDURES: Eye contact-Rinse thoroughly for at least 15 minutes. Ingestion - dilute with water or milk and treat symptomatically.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Sweep up and dispose

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LAVA INSTITIONAL PACK

WATER DISPOSAL METHOD: Dispose of as dry scrap or flush down sewer with large excess of water. If permitted dispose of large quantities at landfill. Disposal is to be performed in compliance with all regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION: MECHNICAL: Acceptable

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid moisture to prevent product loss.

OTHER PRECUATIONS: None

The submission of this MSDS may be required by law, but this is not an assertion that the substance is haardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPOTCHECK DEVELOPER SKD-NF

EPNG MSDS NO: 00022  
PRODUCT ITEM NO: 0058431

DATE ISSUED: 12/01/1978  
LAST REVISED DATE: / /

MANUFACTURER

NAME: MAGNAFLUX CORPORATION  
ADDRESS:

7300 W. LAWRENCE AVE  
CITY: CHICAGO  
STATE: IL ZIP: 60656

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: (312) 867-8000

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: N/A  
MOLECULAR WEIGHT: N/A

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 163  
MELTING POINT: N/A  
VISCOSITY: N/A  
VAPOR DENSITY: 4-5

EVAPORATION RATE: RAPID  
VAPOR PRESSURE: 80 AND 150  
SPECIFIC GRAVITY: 1.400  
WATER SOLUBILITY: INSOLUBLE

FLASH POINT : NONE  
AUTOIGNITION : NONE

METHOD: NONE  
LEL: NONE UEL: NONE

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

WHITE, OPAQUE LIQUID WITH A SWEET ODOR.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



# EL PASO NATURAL GAS

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPOTCHECK DEVELOPER SKD-NF

### SECTION I MATERIAL IDENTIFICATION

Other Designations: ZYGLO DEVELOPER ZP-9 (formula B)

Description: Fine particulate dispersed in a chlorinated hydrocarbon solvent blend.

### SECTION II INGREDIENTS AND HAZARDS

|                                      |        |                   |
|--------------------------------------|--------|-------------------|
| Methyl chloroform                    | 70%    | 8-hr TWA 350 ppm* |
| Perchloroethylene                    | 20%    | 8-hr TWA 100 ppm* |
| Particulate solids:                  | ca 10% |                   |
| Calcium carbonate (main particulate) |        | 8-hr TWA 30 mppcf |
| Silicon dioxide, amorphous           |        | 8-hr TWA 20 mppcf |
| Titanium dioxide                     |        | 8-hr TWA 30 mppcf |
| Zinc stearate                        |        | 8-hr TWA 30 mppcf |

\*Current OSHA levels. NIOSH has proposed 10-hr TWA's of 200 ppm and 50 ppm, respectively, for methyl chloroform and perchloroethylene and warns that animal tests have indicated the possible carcinogenicity of these solvents.

### SECTION III PHYSICAL DATA

Boiling point at 1 atm, deg F --- 163  
Specific gravity (H<sub>2</sub>O=1) --- 1.4  
Vapor pressure at 77F, mm Hg --- 80 ----at 100F, mm Hg --- 150  
Volatiles, % --- 90  
Vapor density (Air=1) --- 4-5  
Evaporation rate --- rapid  
Water solubility --- insoluble  
Appearance and odor: White, opaque liquid with a sweet odor.

### SECTION IV FIRE AND EXPLOSION DATA

Flash Point and Method: None  
Autoignition Temp.: None  
Flammability Limits In Air: None  
Extinguishing Media: Use that which is appropriate for the surrounding fire. This material is nonflammable.  
If involved in a fire, firefighters should wear protective equipment against toxic and corrosive fumes from vaporization, degradation and oxidation of this material.

### SECTION V REACTIVITY DATA

Material is stable under normal storage conditions in a sealed container. Keep vapor away from high temperatures, electric arcs, etc. Hazardous decomposition products include hydrogen chloride and phosgene. Hazardous polymerization will not occur. This material can react with strong caustic to produce flammable or explosive material. Solvents in this material can soften or dissolve many plastics.

### SECTION VI HEALTH AND HAZARD INFORMATION

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SPOTCHECK DEVELOPER SKD-NF

Overexposure to the solvent vapors will have effects like alcohol intoxication - dizziness initially to mental confusion and loss of consciousness. Severe inhalation dosage can be toxic.

Skin or eye contact can produce irritation. Dermatitis can result from prolonged or repeated contact with the skin.

FIRST AID: Eye contact: Flush with water for 15 minutes.

Get medical help if irritation persists.

Skin contact: Remove contaminated clothing promptly. Wash exposed areas with soap and water. Inhalation: Remove to fresh air.

Restore breathing if required. Get medical help for severe exposure.

Ingestion: Get medical help. (Induce vomiting if physician not immediately available).

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Spills can be allowed to evaporate depending on the quantity and the ability to direct vapors to open area, preferably outdoors, or can be absorbed with solids, picked up, and placed in closed containers for disposal. The nuisance particulate remaining from solvent evaporation can be swept up (avoiding dusting conditions) or vacuumed up for disposal as inert solid.

DISPOSAL: Dispose of sealed containers of scrap in an approved landfill or incinerate in a high temperature incinerator with an alkaline scrubber, in accordance with Local, State and Federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Use general ventilation and local exhaust ventilation to keep vapor levels below the established TLV.\* For work in confined areas, use a self-contained or air-supplied respirator or, for short periods only, an approved cartridge or canister respirator.

Use goggles to protect the eyes from splashing. Provide eyewash stations near work areas.

\*Solvent vapor composition can vary during evaporation.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Keep containers tightly closed and stored away from heat or open flame, in well-ventilated storage area. Keep water-free in storage. The nuisance particulates remaining after solvent evaporation from this product must be controlled to avoid dusty conditions.

It is recommended that workers with blood pressure, heart, liver, kidney, or pulmonary problems, with nervous system disorders, with excessive obesity, or with alcohol consumption problems should not work in proximity to use areas of this material.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 12;GENETRON 12;ISOTRON 12;UCON 12

EPNG MSDS NO: 00201  
PRODUCT ITEM NO: 0012278

DATE ISSUED: 08/01/1979  
LAST REVISED DATE: 02/01/1989

MANUFACTURER

NAME: GENIUM PUBLISHING CORP.  
ADDRESS: 1145 CATALYN STREET

CITY: SCHENECTADY,  
STATE: NY ZIP: 12303

EMERGENCY TELEPHONE: (518) 377-8855  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA:  
MOLECULAR WEIGHT: 120.91

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 21.6F (30C)  
MELTING POINT: 316F (158C)  
VISCOSITY:  
VAPOR DENSITY: 4.7

EVAPORATION RATE: 0.4  
VAPOR PRESSURE: 1.2  
SPECIFIC GRAVITY: 1.486  
WATER SOLUBILITY: AT 77F, % 0.028

FLASH POINT : NONFLAMMABLE  
AUTOIGNITION : N/A

METHOD: NONFLAMMABLE  
LEL: N/A UEL: N/A

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: Y SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 12; GENETRON 12; ISOTRON 12; UCON 12

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

DICHLORODIFLUOROMETHANE

SECTION III PHYSICAL DATA

BOILING POINT: 21.6F (30C)  
VAPOR PRESSURE: @ 13C, atm...ca 1.2  
VAPOR DENSITY: (Air=1) 4.7  
SOLUBILITY IN WATER @ 77F, % ... 0.028  
SPECIFIC GRAVITY: (30/4C) ... 1.486  
PERCENT VOLATILE: ... Ca 100%  
EVAPORATION RATE: (CCI4=1) ...0.4  
MELTING POINT: 316F (-158C)  
MOLECULAR WEIGHT: 120.91  
APPEARANCE AND ODOR: Colorless gas with a slight etherlike odor.  
Readily liquified under pressure and/or cooling. Liquid evaporates rapidly.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: NONFLAMMABLE

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: Use whatever is appropriate for surrounding fire. Dichlorodifluoromethane is a nonflammable material. Vapors are five times heavier than air. High concentrations may tend to accumulate in low-lying areas. Fire fighters should wear self-contained breathing apparatus and fully protective clothing against suffocating vapors and toxic and corrosive decomposition products. Attempt to stop leak if there is no risk. The liquid is likely to destroy skin tissue by freezing.

SECTION V REACTIVITY DATA

Dichlorodifluoromethane is a stable gaseous material in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization. Prevent exposure to alkali or alkaline earth metals such as sodium, potassium, etc. Magnesium and aluminum may also be reactive, especially in the finely ground or powdered state or at high temperatures. Thermal - oxidative degradation can produce toxic and corrosive materials such as halogens, carbonyl halides, and phosgene.

SECTION VI HEALTH AND HAZARD INFORMATION

High concentrations of chlorodifluoromethane vapors may cause asphyxiation due to dilution of available oxygen in air below levels

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 12;GENETRON 12;ISOTRON 12;UCON 12

necessary to sustain life. Symptoms can include lightheadedness, giddiness, disorientation, shortness of breath, and possible cardiac arrhythmias. VBapors mayu have little or no effect on the eyes, byt liquid contact can cause serious eye damage from freezing. Skin contact with liiquid can cause frostbite. (This material freezes tissue on contact as liquid rapidly vaporizes.)

FIRST AID METHODS:

EYE CONTACT: Flush thoroughly wiht running water for 15 minutes (including under eyelids).

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water. Treat for frostbite if symptoms are present.

INHALATION: Remove to fresh air. Restore and/or support breathing as needed.

INGESTION: Seek physician (not expected as a hazard). Seek prompt medical assistance for further treatment, observation, and support DO NOT USE epinephrine or simular drugs because they can produce cardiac arrhythmias, including ventricular fibrillation.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel if leaks or spills. Remove sources of heat or open flame. Provide adequate ventilation. Cleanup personnel to use self-contained respirator and protective clothing against frostbite. Stop leakage if possible; remove leaking containers to safe area for discharge and allow to evaporate in an area remote from buildings and people.

DISPOSAL: Material can be reclaimed by distillation. Avoid discharge to environment when possible. Return scrap to supplier, if possible. Follow Federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Provide adequate mechanical ventilation to keep vapors below the TLV level. Supply ventilation for sumps and low-lying areas where the dense vapors of this material may collect. Local exhaust should be used where large amounts are released. Use approved self-contained or air-supplied breathing apparatus and lifelines for emergencies. Use chemical safety goggles and/or face shield to prevent liquid contact with eyes where splashing is possible. Wear neoprene orlined butyl gloves and clothing appropriate for the work situation to minimize skin contact with lliquid. Eyewash stations and safety showers should be readily accessible near use areas. Follow general safety requirements for compressed gasses. Vaporization of excessive amounts can displace oxygen necessary for breathing and may cause suffocation when used in confined spaces or areas without vnetilation.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store in closed, steel, pressurized cylinders in a cool (below 125F), dry, well-vintilated area away from open flame and heat sources. Arc-producing equipment or other high-temperature equimpment should

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 12;GENETRON 12;ISOTRON 12;UCON 12

not be use in a fluorinated hydrocarbon atmosphere. Protect container from physical damage. High-density vapors may displace air and present an asphyxiation hazard. Concentrations well below the TLV level can damage space heaters when drawn into the compustion chamber. Heater should have independent air supply. Prevent skin and eye contact with liquid. Avoid inhalation of vapors. thermal decomposition products canform halogen acids that have very sharp stingent effects and can be detected by odor. Such odor is a hazard warning; when detected, immediately evacuate the area and ventilate.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 22 30# BOTTLE

EPNG MSDS NO: 00203  
PRODUCT ITEM NO: 0012280

DATE ISSUED: 08/01/1979  
LAST REVISED DATE: 02/01/2989

MANUFACTURER

NAME: GENIUM PUBLISHING CORP.  
ADDRESS: 1145 CATALYN STREET

CITY: SCHENECTADY,  
STATE: NY ZIP: 12303

EMERGENCY TELEPHONE: (518)377-8855  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA:  
MOLECULAR WEIGHT: 86.47

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 40F (40C)  
MELTING POINT: 146F  
VISCOSITY: N/A  
VAPOR DENSITY: 2.98

EVAPORATION RATE: N/A  
VAPOR PRESSURE: 10  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: 0.30

FLASH POINT : NONFLAMMABLE  
AUTOIGNITION : 1170F

METHOD:  
LEL: N/A UEL: N/A

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: Y SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 22 30# BOTTLE

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

CHLORODIFLUOROMETHANE

SECTION III PHYSICAL DATA

BOILING POINT: 40F (40C)

VAPOR PRESSURE: 10

VAPOR DENSITY: 2.98

SOLUBILITY IN WATER 25C, 1 atm, wt % ... 0.30

PERCENT VOLATILES: ca 100

MOLECULAR WEIGHT: 86.47

LIQUID DENSITY: @ 20C, g/cc ... 1.2

MELTING POINT: 146C

APPEARANCE AND ODOR: Colorless, odorless (below 20% in air) gas,  
which is readily liquified under pressure and/or reduced temperature.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Nonflammable

AUTOIGNITION : 1170F

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: Use whatever is appropriate for surrounding fire  
Chlorodifluoromethane is a nonflammable material. Vapors are heavier  
than air. High concentrations may tend to accumulate in low areas.  
Attempt to stop leakage if there is no risk. (Liquid likely to destr  
oy skin tissue by freezing.)

Fire fighters should wear self-contained breathing apparatus and fully  
protective clothing against suffocating vapors and toxic and corrosive  
decomposition products.

SECTION V REACTIVITY DATA

This is a stable gaseous material in closed containers at room  
temperature under normal storage and handling conditions. It does not  
undergo hazardous polymerization. Prevent exposure to alkali or  
alkaline earth metals such as sodium, potassium, etc. Corrosion can  
occur when magnesium alloys or aluminum containing more than 2%  
magnesium is used with fluorocarbon systems in which water may be  
present. Thermal-oxidative degradation can produce toxic and  
corrosive materials such as halogens and carbon halides.

SECTION VI HEALTH AND HAZARD INFORMATION

High concentrations of dichlorodifluoromethane vapors may cause  
asphyxiation due to available oxygen in air below levels necessary to  
sustain life. Symptoms can include lightheadedness, giddiness,  
disorientation, shortness of breath, and possible cardiac arrhythmias.



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 22 30# BOTTLE

Vapors may have little or no effect on the eyes, but liquid contact can cause serious eye damage from freezing. Skin contact with liquid can cause frostbite. (This material freezes tissue on contact because liquid rapidly vaporizes.)

FIRST AID PROCEDURES:

EYE CONTACT: Flush thoroughly with running water for 15 minutes (including under eyelids).

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water. Treat for frostbite if symptoms are present.

INHALATION: Remove to fresh air. Restore and/or support breathing as needed.

INGESTION: Seek physician (not expected as a hazard). Seek prompt medical assistance for further treatment, observation, and support. DO NOT USE epinephrine or similar drugs for they can produce cardiac arrhythmias, including ventricular fibrillation.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of leaks or spills. Remove sources of heat or open flame. Provide adequate ventilation. Cleanup personnel to use self-contained respirator and protective clothing to guard against frostbite. Stop leakage if possible; remove leaking containers to safe area for discharge and allow to evaporate in an area remote from buildings and people.

DISPOSAL: Material can be reclaimed by distillation. Avoid discharge to environment when possible. Return scrap to supplier, if possible. Follow Federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Provide adequate mechanical ventilation to keep vapors below the TLV level. Supply ventilation for sumps and low-lying areas where the dense vapors of this material may collect. Local exhaust should be used where large amounts are released. Use approved self-contained or air-supplied breathing apparatus and lifelines for emergencies. Use chemical safety goggles and/or face shield to prevent liquid contact with eyes where splashing is possible. Wear neoprene or lined butyl gloves and clothing appropriate to the work situation to minimize skin contact with liquid. Eyewash stations and safety showers should be readily accessible near areas of use. Contact lenses may pose a special hazard: soft lenses may absorb and all lenses concentrate irritants.

Vaporization of excessive amounts can displace oxygen necessary for breathing and may cause suffocation when used in confined spaces or areas without ventilation.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store in closed pressurized cylinders in a cool (below 125F), dry, well-ventilated area away from flame and heat sources. Arc-producing equipment should not be used in a fluorinated hydrocarbon atmosphere.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FREON 22 30# BOTTLE

Protect containers from physical damage. High-density vapors may displace air and present an asphyxiation hazard. Concentrations well below the TLV level can damage space heaters when drawn into combustion chamber. Heater should have independent air supply. Prevent skin and eye contact with liquid. Avoid inhalation of vapors. Products of thermal decomposition can form halogen acids that have very sharp stinging effects and can be detected by odor. Such odor is a hazard warning; when detected immediately evacuate the area and ventilate.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CHICO X FIBER

EPNG MSDS NO: 01010  
PRODUCT ITEM NO: 0015165

DATE ISSUED: 10/03/1986  
LAST REVISED DATE: 04/03/1987

MANUFACTURER

NAME: CROUSE-HINDS ECM DIV  
ADDRESS: WOLF & 7TH N. ST.  
P.O. BOX 4999

CITY: SYRACUSE  
STATE: NY ZIP: 13221

EMERGENCY TELEPHONE: (315)477-7000  
24 HOUR TELEPHONE: (315)477-7000

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: NA

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CHICO X FIBER

SECTION I MATERIAL IDENTIFICATION

IDENTITY: Chico X Fiber

MANUFACTURER'S NAME:

Crouse-Hinds ECM Div. Cooper Industries

ADDRESS: Wolf & 7th North Sts.

P.O. Box 4999

Syracuse, NY 13221

EMERGENCY TELEPHONE & OTHERS:

(315) 466-7000

DATE PREPARED: October 03, 1986

REVISED DATE: April 03, 1987

SECTION II INGREDIENTS AND HAZARDS

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY: COMMON NAME):

Aluminosilicate (Vitreous)

CAS No: None

OSHA PEL: N/A

ACGIH TLV: N/A

OTHER LIMITS RECOMMENDED: Exposure limits 2 fibers/cc TWA,  
10 fibers/cc CL (Sohio)\*

‡ (OPTIONAL): 99+

\*PENDING THE RESULTS OF CHRONIC HEALTH EFFECT STUDIES, AIRBORNE  
EXPOSURES SHOULD BE CONTROLLED AT OR BELOW THE SOHIO RECOMMENDED  
EXPOSURE LIMIT LISTED ABOVE.

SECTION III PHYSICAL DATA

BOILING POINT: N/A

SPECIFIC GRAVITY (H<sub>2</sub>O=1): N/A

VAPOR PRESSURE (mmHg): N/A

MELTING POINT: N/A

VAPOR DENSITY (AIR=1): N/A

EVAPORATION RATE (BUTYL ACETATE=1): N/A

SOLUBILITY IN WATER: N/A

APPEARANCE AND ODOR: Mass of white short fibers, odorless.

SECTION IV FIRE AND EXPLOSION DATA

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CHICO X FIBER

FLASH POINT (METHOD USED): None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Not combustible

SPECIAL FIRE FIGHTING PROCEDURES: Not combustibled

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Sect. VII

SECTION V REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Temperature above 1600F

INCOMPATIBILTYY (MATERIALS TO AVOID): Hydrofluoric acid and concentrated alkali

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

SECTION VI HEALTH AND HAZARD INFORMATION

HEALTH HAZARDS (ACUTE & CHRONIC): See Sect VII

CARCINOGENICITY:

Possible cancer hazard based on tests with lab animals, but there are no known.

SIGNS AND SYMPTOMS OF EXPOSURE:

Over exposure may cause irritation to eyes and skin. Irritation and inflammation of eyes and skin is caused by mechanical reaction to the sharp broken ends of fibers. Avoid rubbing eyes because the abrasive action may cause damage to the outer surface. May cause respiratory tract irritation. Pre-existing conditions such as bronchial hyper-reactivity, chronic bronchel or lung diseases may be aggravated by exposure. Ingestion causes nausea, irritation, vomiting & diarrhea.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: DO NOT induce vomiting

SKIN CONTACT: Remove from skin by washing

EYE CONTACT: Flood immediately with water, thoroughly rinse under eye lids.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CHICO X FIBER

INHALATION: Remove affected person from exposure. All cases see physician if irritation persists.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Vacuum where possible, or sweep up. Avoid creating excessive dust. Avoid clean up procedures that may result in water pollution.

WASTE DISPOSAL METHOD:

This substance, when discarded or disposed of, is not specifically listed as hazardous waste in Federal Regulations. It could, however be hazardous if it is considered toxic, corrosive or reactive according to Federal Definitions (40CFR261), then regulations of 40CFR262, 263 & 264 apply.

SECTION VIII SPECIAL PROTECTION INFORMATION

CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): 2.9-5.0 f/cc concentration-3M8710; 5.0-50.0 f/cc = Survivair w/1090-00 filter; >50.0 f/cc MSA01-0000-06 full face type C

VENTILATION

LOCAL EXHAUST: Yes, if above TLV

OTHER: Outdoor conditions

PROTECTIVE GLOVES: Wear gloves to prevent contact

EYE PROTECTION: Wear chemical goggles or safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear hats and full body clothing to prevent skin contact.

WORK/HYGIENIC PRACTICES: DO NOT wear contact lenses when working with this substance.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Transportation, storage, treatment, and disposal must be conducted in compliance with Federal, State and Local Regulations. Product which is exposed to temperatures above 1600F may undergo partial conversion to cristobalite, a form of crystalline silica which can cause severe respiratory disease---"Pneumoconiosis"

The permissible exposure limit (PEL) for dusts containing cristobalite is determined by one half the value calculated from the formula  $(10 \text{ mg/m}^3) / (\% \text{ SiO}_2 + 2)$ .

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ALKALINE MANGANESE DIOXIDE CELL MN1500 (AA)

EPNG MSDS NO: 00151  
PRODUCT ITEM NO: 0062763

DATE ISSUED: 01/06/1989  
LAST REVISED DATE: / /

MANUFACTURER

NAME: DURACELL USA

ADDRESS:

BERKSHIRE INDUS. PK.

CITY: BETHEL

EMERGENCY TELEPHONE: (203) 796-4654

STATE: CT ZIP: 06801

24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 2.000  
WATER SOLUBILITY: 50%

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

CLEAR LIQUID, GREY POWDER, BLACK POWDER.

PRODUCT SYNONYMS

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ALKALINE MANGANESE DIOXIDE CELL MN1500 (AA)

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

|                     |    |
|---------------------|----|
| Potassium Hydroxide | 8% |
| Manganese Dioxide   | 37 |
| Zinc                | 15 |
| Mercury             | <1 |

SECTION III PHYSICAL DATA

Sol. in Water: 50%  
Spec. Gravity: 2.0  
Appearance and Odor: Clear liquid, black powder, grey powder.

SECTION IV FIRE AND EXPLOSION DATA

Special Fire Fighting Procedures: Fire fighters should use self contained breathing apparatus when a large number of cells are involved in a fire.  
Unusual Fire and Explosion Hazards: Cells may release toxic mercury vapor when the integrity of the cans is broken.

SECTION V REACTIVITY DATA

Stable  
Conditions to Avoid: Do not heat, disassemble, or recharge.  
Hazardous Composition or By-products: When heat, cells may emit hazardous vapors of Hg and caustic KOH.

SECTION VI HEALTH AND HAZARD INFORMATION

Routes of Entry: Inhalation, skin, ingestion  
These chemicals are contained in a sealed can. Risk of exposure occurs only if the cell is mechanically or electrically abused. The most likely risk is acute exposure when a cell leaks. KOH is caustic and skin contact can cause burns. Eye contact with KOH may cause permanent injury.  
Skin and eye contact with KOH may cause chemical burns. At elevated temperature, Hg vapor may be generated which should not be inhaled. If leakage from a cell contacts the skin, flush immediately with water. For eye contact; flush with copious amounts of water for 15 minutes and see physician at once. If vapor is inhaled, remove to fresh air.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Avoid skin and eye contact. Do not inhale vapors.  
In small quantities, cells may be disposed of with household trash. Open cells in large quantities should be treated as a hazardous waste. Do not incinerate since cells may explode at excessive temperatures. Dispose in accordance with applicable regulations.



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ALKALINE MANGANESE DIOXIDE CELL MN1500 (AA)

SECTION VIII SPECIAL PROTECTION INFORMATION

Avoid mechanical or electrical abuse. Use neoprene, rubber or latex nitrile gloves when handling leakers. Store at room temperature. Do not attempt to recharge. Install cells in accordance with equipment instructions. Do not dispose in fire. Replace all batteries in equipment at the same time. Do not mix battery systems such as alkaline and zinc carbon in same equipment. Do not carry batteries loose in pocket or bag.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO C-102

EPNG MSDS NO: 00864  
PRODUCT ITEM NO: 0040375

DATE ISSUED: 01/19/1987  
LAST REVISED DATE: / /

MANUFACTURER

NAME: FEL-PRO INCORPORATED  
ADDRESS: 7450 N. MCCORMIC BLV

CITY: SKOKIE,  
STATE: IL ZIP: 60076

EMERGENCY TELEPHONE: (312) 674-7700  
24 HOUR TELEPHONE: (312) 761-4500

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: > 400F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NEGLIGIBLE  
SPECIFIC GRAVITY: 1.140  
WATER SOLUBILITY: NEGLIGIBLE

FLASH POINT : 310 F  
AUTOIGNITION : NA

METHOD: ASTM D92-57 (C.O.C.)  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO C-102

SECTION I MATERIAL IDENTIFICATION

TRADE NAME AND SYNONYMS: FEL-PRO C-102

CHEMICAL NAME: Mixture

CHEMICAL FAMILY: Mixture

SECTION II INGREDIENTS AND HAZARDS

This material is composed of calcium flouride and graphite flakes suspended in a mineral oil base, and contains no ingredients considered hazardous per U.S. Department of Labor OSHA criteria re: 29 CFR 1910.1200 Hazard communications Law.

SECTION III PHYSICAL DATA

BOILING POINT(F)@ 760 mmHg: >400 F

SPECIFIC GRAVITY (H2O=1): 1.14

VAPOR PRESSURE (mmHg): Negligible

% VOLATILE BY VOLUME: Negligible

VAPOR DENSITY (AIR=1): Negligible

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Black paste, Slight petrolatum odor.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (Method Used): 440F ASTM D92-57 (C.O.C.)

EXTINGUISHING MEDIA:

Use dry chemicals, foam, CO2, or water fog

SPECIAL FIRE FIGHTING PROCEDURES:

Use above extinguishing media. Do not direct water directly into fire.

Use eye protection. Wear self-contained breathing apparatus when fire fighting in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Pyrolysis may result in hydrofluoric acid fumes.

Except as noted above, same as for petroleum grease fires.

SECTION V REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (Materials to Avoid):

Strong mineral acids and oxidizers (i.e., nitric acid, peroxides, permanganates, etc.)

HAZARDOUS DECOMPOSITION PRODUCTS:

Pyrolysis yields CO, CO2, HF and incompletely burned hydrocarbons.

HAZARDOUS POLYMERIZATION:

Will not occur

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO C-102

SECTION VI HEALTH AND HAZARD INFORMATION  
HEALTH HAZARDOUS (ACUTE AND CHRONIC)

No acute or chronic health hazards known.

EMERGENCY AND FIRST AID PROCEDURES:

For eye contact - flush with tepid water 15 minutes, holding eyelids apart. DO not rub eyes. Seek medical attention. Ingestion-Large amounts may result in diarrhea. Get medical attention; treat symptomatically.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES  
PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Scoop up, wipe up with rags or use absorbent material. Complete clean-up using detergent and water, or high flash point solvent or chlorinated solvent cleaner with adequate ventilation.

WASTE DISPOSAL METHOD: Use controlled incineration or bury in a posted landfill in accordance with Federal, State and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required

VENTILATION LOCAL EXHAUST: Acceptable  
MECHANICAL: Acceptable

PROTECTIVE GLOVES: None required

OTHER PROTECTIVE EQUIPMENT: None required

EYE PROTECTION: Sufficient to prevent contact.

WORK/HYGIENIC PRACTICES: No special work or hygienic practices required.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
Use normal storage and handling. DO NOT expose to high heat, open flames or strong oxidizers.

OTHER PRECAUTIONS: Contains hydrocarbons - DO NOT use in oxygen

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO C-102

service. Keep out of reach of children.

RECEIPTS AND TRANSFERS BATCH PROCESSING ERROR REPORT

ERROR ITEM NBR NOT FOUND IN ITEM XREF

ITEM NBR: 0046057 DATE: 19940601 QUANTITY: 00000001 REF. NBR: 3080128522

ITEM NBR: 0046057 MSDS CHEMICAL XREF RECORDS DO NOT EXIST!

ITEM NBR: 0017787 MSDS CHEMICAL XREF RECORDS DO NOT EXIST!

ITEM NBR: 0040435 MSDS CHEMICAL XREF RECORDS DO NOT EXIST!

ERROR ITEM NBR NOT FOUND IN ITEM XREF

ITEM NBR: 0041112 DATE: 19940711 QUANTITY: 00000004 REF. NBR: 1080122239

ITEM NBR: 0041112 MSDS CHEMICAL XREF RECORDS DO NOT EXIST!

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SILITE RTV SILICONE-CLEAR, WHITE, HIGH TEMP RED.

EPNG MSDS NO: 00728  
PRODUCT ITEM NO: 0040383

DATE ISSUED: / /  
LAST REVISED DATE: 07/01/1986

MANUFACTURER

NAME: DEVCON CORPORATION  
ADDRESS: 30 ENDICOTT ST.

CITY: DANVERS,  
STATE: ZIP: 01923

EMERGENCY TELEPHONE: (617) 777-1100  
24 HOUR TELEPHONE: (617) 777-1100

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA:  
MOLECULAR WEIGHT:

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SILITE RTV SILICONE-CLEAR, WHITE, HIGH TEMP RED.

SECTION I MATERIAL IDENTIFICATION

TRADE NAME: Silite RTV Silicone-Clear, White, High Temp. Red

HMIS:  
Health=1  
Flammability=1  
Reactivity=1

CHEMICAL FAMILY: Silicone

SECTION II INGREDIENTS AND HAZARDS

| INGREDIENTS   | CAS#       | %  | NATURE OF HAZARD    |
|---------------|------------|----|---------------------|
| Acetoxysilane | Not issued | 5% | Eye & skin irritant |

(Not on Massachusetts Substance List)

SECTION III PHYSICAL DATA

BOILING POINT (F): > 300

VAPOR DENSITY (AIR=1): > 1

EVAPORATION RATE (BuAc=1): < 1

MELTING POINT (F): N.A.

SPECIFIC GRAVITY: 1.05

SOLUBILITY IN WATER: Negligible

VAPOR PRESSURE (MM HG) @ 77 F: < 5

PERCENT VOLATILE BY VOLUME (%): < 5

PH (5 WT % IN H2O): 3-4

APPEARANCE AND ODOR: White, clear or red paste; odor of acetic acid.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (F) (METHOD USED): > 250 (TPC)

FLAMMABLE LIMITS IN AIR LEL: N.A. UEL: N.A.

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SILITE RTV SILICONE-CLEAR, WHITE, HIGH TEMP RED.

SECTION V REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Air or moisture causes acetic acid vapors to form.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Not applicable.

SECTION VI HEALTH AND HAZARD INFORMATION

EMERGENCY AND FIRST AID PROCEDURES

EYES:

Flush with water for 15 minutes. Obtain medical attention.

SKIN:

Wipe off and flush with water.

INGESTION:

Obtain immediate medical attention.

INHALATION:

Remove to fresh air. Obtain immediate medical attention.

THRESHOLD LIMIT VALUE:

10 ppm (Acetic Acid\*)

ORAL LD 50 (RAT):

3310 mg/kg

DERMAL LD50 (RABBIT):

1060 mg/kg

INHALATION LC50 (RAT):

> 15,000 ppm

All data for acetic acid.

\* Acetic acid is generated during the curing process.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SILITE RTV SILICONE-CLEAR, WHITE, HIGH TEMP RED.

ROUTE OF EXPOSURE ACUTE

EYES:

Mild irritation

SKIN:

Possible irritation

INHALATION:

Respiratory toxicant.

CHRONIC:

No data

CARCINOGENICITY

NTP? No ACGIH? No IARC Monographs? No OSHA regulated? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None reported.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Scrape up excess. Apply absorbent.

WASTE DISPOSAL METHOD:

Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

EYES:

Safety glasses with side shields.

SKIN:

Wear protective clothing.

INHALATION:

Use respiratory protection unless ventilation is adequate. Use acid gas organic vapor type.

VENTILATION:

Use sufficient ventilation to maintain exposure levels with TLV guidelines.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING, STORING, ETC:

Store below 90 F.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made to the information contained herein.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NR.390 CUTTING OIL (AEROSOL)

EPNG MSDS NO: 00534  
PRODUCT ITEM NO: 0040483

DATE ISSUED: 06/01/1985  
LAST REVISED DATE: / /

MANUFACTURER

NAME: A.W. CHESTERTON COMPANY  
ADDRESS: MIDDLESEX INDUSTRIAL  
PARK

CITY: STONEHAM,  
STATE: MA ZIP: 02180

EMERGENCY TELEPHONE: (617) 438-7000  
24 HOUR TELEPHONE: (617) 438-7013

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA:  
MOLECULAR WEIGHT:

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NR.390 CUTTING OIL (AEROSOL)

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NR.390 CUTTING OIL (AEROSOL)

SECTION I MATERIAL IDENTIFICATION

DATE OF PREP. June 1, 1985

MSDS NO.: 114A-1

PRODUCT NAME: Nr 390 Cutting Oil (Aerosol)

NFPA HAZARD RATING

4= Extreme  
3= High  
2= Moderate  
1= Slight  
0= Insignificant

\*= Chronic Health Hazard

FLAMMABILITY:1, HEALTH:1, REACTIVITY: 1

| INGRED/HAZARDS          | SECTION II<br>CAS# | INGREDIENTS AND HAZARDS<br>% | TLV        | VAPOR PRESSURE |
|-------------------------|--------------------|------------------------------|------------|----------------|
| Isobutane               | 75-28-5            | 1-5                          | 1000ppm    | --             |
| PEL: 1000ppm 1800 mg/m3 |                    |                              | 1800 mg/m3 |                |
| Propane                 | 74-98-6            |                              |            | --             |
| PEL: 1000ppm 1800 mg/m3 |                    |                              |            |                |

\*Simple Asphyxiant  
No TLV

SECTION III PHYSICAL DATA

INITIAL BOILING POINT ABOVE 200 C (392 F)

PERCENT VOLATILE (by volume): 15

VAPOR DENSITY (Air=1): >1

EVAPORATION RATE (Ether=1): <1

WEIGHT PER GALLON: 7.6 lbs. (0.9 kg/l)

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT ABOVE 170 C (340 F) LEL --  
Open Cup, Product Only

DOT CLASSIFICATION: Compressed Gas, n.o.s., Flammable Gas

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NR.390 CUTTING OIL (AEROSOL)

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide or water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Thermal decomposition can produce chlorides. SO<sub>x</sub> and other toxic fumes. Pressurized containers when heated are an explosive hazard.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus. Cool exposed containers with water.

SECTION V REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Open flames and red hot surfaces.

HAZARDOUS DECOMPOSITION PRODUCTS:

Chlorides, SO<sub>x</sub> and other toxic fumes

MATERIALS TO AVOID: Strong oxidizers like liquid chlorine and concentrated oxygen.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: N/A

PRIMARY ROUTE OF EXPOSURE UNDER NORMAL USE: Skin Contact.

ACUTE EFFECTS FROM OVEREXPOSURE: None

CHRONIC EFFECTS FROM OVEREXPOSURE: Repeated or prolonged skin contact may cause mild irritation.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: N/A

EYE/SKIN CONTACT: Wash skin with soap and water. Flush eyes with water for at least 15 minutes after contact. Consult physician.

INGESTION: N/A

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Contain spill to a small area. Pick up with absorbent material and transfer to a suitable container for disposal. Keep out of sewers, streams and waterways.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NR.390 CUTTING OIL (AEROSOL)

WASTE DISPOSAL MATERIAL:

Incinerate absorbed material. DO NOT incinerate sealed containers. Bury containers in an approved area. Check local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

PROTECTIVE GLOVES: Not normally needed.

EYE PROTECTION: Safety glasses.

VENTILATION: Room ventilation is usually adequate.

OTHER: None.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

GENERAL USE AND PRECAUTIONARY INFORMATION:

This is a petroleum base product with a flash point above 170 C (340 F). The principal hazard with this product, as with any other petroleum of this type, is the smoke and fumes produced if it is used for heavy operations. Care should be taken to avoid excessive inhalation of these by-products.

PRECAUTIONS IN HANDLING AND STORING:

DO NOT store in direct sunlight or above 49 C (120 F).

OTHER PRECAUTIONS: None.

The information contained herein is based on data provided from suppliers of the materials and not on the mixture itself, and is believed to be correct. However, no warranty is expressed or implied regarding the accuracy of the data. Since the information contained herein may be applied under conditions beyond our control, the persons receiving it shall make their own determination of the suitability of the product for their particular purpose.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPNG 700 - S458 - 100 (FLOOR PAINT - LIGHT GRAY)

EPNG MSDS NO: 01007  
PRODUCT ITEM NO: 0040494

DATE ISSUED: / /  
LAST REVISED DATE: / /

MANUFACTURER

NAME: C & G SUPPLY  
ADDRESS: 862 INDUSTRIAL

CITY: ELMHURST  
STATE: IL ZIP: 60126

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 315 F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 4.8

EVAPORATION RATE: .13  
VAPOR PRESSURE: 5.0  
SPECIFIC GRAVITY: 0.990  
WATER SOLUBILITY: NO

FLASH POINT : 101 F  
AUTOIGNITION : NA

METHOD: NA  
LEL: 0.80 UEL: 19.00

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPNG 700 - S458 - 100 (FLOOR PAINT - LIGHT GRAY)

SECTION I MATERIAL IDENTIFICATION

PRODUCT NAME: 38 0000490 EPNG 700 - S458 - 100

PRODUCT CLASS: Urethane

SECTION II INGREDIENTS AND HAZARDS

| INGREDIENT       | CAS#        | WT% | PEL  | PPM | TLV  | @ 68' |
|------------------|-------------|-----|------|-----|------|-------|
| MINERAL SPIRITS  | 008032-32-4 | 40% | 300  |     | 100  | 2.0   |
| KAOLIN           | 001332-58-7 | 5   | 10** |     | 10** | NA    |
| TITANIUM DIOXIDE | 013463-67-7 | 5   | 10** |     | 10** | NA    |

\*\* MG/M3

NE = NOT ESTABLISHED NA = NOT APPLICABLE NK = NOT KNOWN

SECTION III PHYSICAL DATA

BOILING RANGE: 315 - 385 F

VAPOR DENSITY: Heavier than air

EVAPORATION RATE: Slower than ether

% VOLATILE BY VOLUME: 54

WT. PER GALLON: 9.22 lbs.

APPEARANCE AND ODOR: Lt. Gray Liquid with solvent odor.

SECTION IV FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: OSHA Combustible liquid - Class II DOT:  
Combustible liquid

FLASH POINT: 100 F

LEL: 1.0

EXTINGUISHING MEDIA: Regular Foam, Carbon dioxide, Water Fog or Dry  
Chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Keep away from heat, sparks and open flame. Closed containers may explode (Due to build-up of steam pressure) when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus with full face piece operated under positive pressure. Water may be used to cool containers to prevent pressure build-up and pressure explosion when exposed to extreme heat.

SECTION V REACTIVITY DATA

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPNG 700 - S458 - 100 (FLOOR PAINT - LIGHT GRAY)

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide/dioxide, various hydrocarbon compounds.

CONDITIONS TO AVOID:

High temperatures, hot surfaces, electric arcs.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents (E.G. nitric acid, permanganates, etc.)

SECTION VI HEALTH AND HAZARD INFORMATION

PERMISSIBLE EXPOSURE LEVEL: See Hazardous Ingredients section.

THRESHOLD LIMIT VALUE: See Hazardous Ingredients section.

EFFECTS OF OVEREXPOSURE

ACUTE:

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged or repeated contact can cause moderate irritation and dermatitis.

BREATHING: Can cause nasal and respiratory irritation, dizziness, and nausea. Aspiration into the lungs can cause chemical pneumonitis, which can be fatal.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Intentional misuse by deliberately concentrating and inhaling the vapors may be harmful or fatal.

CHRONIC EXPOSURE:

Solvents have been reported to cause permanent brain and nervous system damage with possible liver and kidney damage. Respiratory and skin sensitization.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Dermatitis, allergic responses, diseases of skin and lungs.

PRIMARY ROUTE(S) OF ENTRY: Dermal; Inhalation; Ingestion

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash with soap and water.

EYES: Flush immediately with water for 15 minutes. Get medical

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPNG 700 - S458 - 100 (FLOOR PAINT - LIGHT GRAY)

attention immediately.

INHALATION: If affected by vapors or spray mist, remove to fresh air. If in a coma or breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. In either case get medical attention immediately. Keep person warm and quiet.

INGESTION: Do not induce vomiting, get medical attention immediately. Remove contaminated clothing and shoes

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Contain spill. Soak up with rags, sand, floor absorbent. Eliminate all sources of ignition (flame, sparks, etc.), exclude from area persons without protective equipment. Use non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with federal, state, and local regulations. Use licensed hazardous waste disposal company.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If PEL or TLV is exceeded, use NIOSH/MSHA respirator TC23C or equivalent.

VENTILATION: Provide sufficient mechanical and/or local exhaust ventilation to maintain exposure below PEL or TLV. Follow OSHA 29CFR Part 1910.94.

PROTECTIVE GLOVES: Neoprene or nitrile rubber

EYE PROTECTION: Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged contact, wear impervious clothing and boots. Use protective cream if skin contact is likely.

HYGENIC PRACTICES: Wash hands before eating or smoking. Do not consume food or beverage while using this product.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store away from heat, sparks, and flame. Keep container tightly closed

OTHER PRECAUTIONS: Do not reuse container. Empty containers may contain hazardous residue. Keep away from heat, sparks and flame. Do not cut, puncture or weld on or near container. Prevent breathing of vapor or spray mist.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPNG 700 - S458 - 100 (FLOOR PAINT - LIGHT GRAY)

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with manufacturer or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: YELLOW PAINT 1

EPNG MSDS NO: 00089  
PRODUCT ITEM NO: 0040506

DATE ISSUED: / /  
LAST REVISED DATE: / /

MANUFACTURER

NAME: VALSPAR CORP  
ADDRESS: 150 JFK PARKWAY

CITY: SHORT HILLS  
STATE: NJ ZIP: 07078

EMERGENCY TELEPHONE: (800)424-9300  
24 HOUR TELEPHONE: (201)467-8500

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: 20-Y-5  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 306  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 3.0

EVAPORATION RATE: .10  
VAPOR PRESSURE: 1.70  
SPECIFIC GRAVITY: 1.200  
WATER SOLUBILITY: NO

FLASH POINT : 101  
AUTOIGNITION : NA

METHOD: TCC/PM  
LEL: 0.8 UEL: 6.0

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

NORMAL FOR A PAINT OR COATING TYPE PRODUCT.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: YELLOW PAINT 1

SECTION I MATERIAL IDENTIFICATION

CHEMICAL FAMILY: Alkyd

TRADE NAME: M & F Enamel Yellow

FORMULA: 20-Y-5

SECTION II INGREDIENTS AND HAZARDS

|                       | % WT | TLV (UNITS)  |
|-----------------------|------|--------------|
| Exempt Min. Spirits   | 40   | 100 ppm      |
| Lead Chromate Pigment | 30   | 0.01 mg/cu m |

SECTION III PHYSICAL DATA

Boiling Point: 306  
Vapor Pressure: 1.69  
Vapor Density: 3.0  
Spec. Gravity: 1.20  
% Vol. by Vol.: 60  
Evap. Rate: 0.10  
Appearance and Odor: Normal for a paint or coating type product.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: 101

FLAMMABLE LIMITS: LEL: 0.8 UEL: 6.0

EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, foam, and/or water fog.

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.

SECTION V REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: None

HAZARDOUS DECOMPOSITION PRODUCTS:

Metal oxides, Carbon dioxide and carbon monoxide

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: Not required for mixtures

EFFECTS OF OVEREXPOSURE:

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: YELLOW PAINT 1

Respiratory irritation, dizziness, nausea, loss of consciousness

EMERGENCY AND FIRST AID PROCEDURES: Inhalation: Remove person from

Inhalation: Remove person from exposure area. If breathing has stopped use mouth to mouth resuscitation and get medical attention.

Eye Contact: Flush with water for 15 minutes.

Skin Contact: Wash with soap and water.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

VENTILATE AREA. AVOID BREATHING OF VAPORS

USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK FOR LARGE SPILLS IN A CONFINED AREA.

AVOID CONTACT WITH EYES

WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP

WASTE DISPOSAL METHOD:

Dispose in chemical disposal area or in a manner that complies with local, state and federal regulation. Do not incinerate closed containers.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray application.

VENTILATION: Required for spraying or in a confined area.

Ventilation equipment should be explosion proof.

PROTECTIVE GLOVES: Usual hand protection for paint application.

EYE PROTECTION: Usual eye protection for applying paint.

OTHER PROTECTIVE EQUIPMENT: Usual clothing for painting operations.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Containers should be grounded when pouring. Avoid free of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120°F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EZE OFF

EPNG MSDS NO: 00177  
PRODUCT ITEM NO: 0040580

DATE ISSUED: 05/01/1987  
LAST REVISED DATE: / /

MANUFACTURER

NAME: OLYMPIA LABS., INC.  
ADDRESS: 1491 LEE TREVINO  
SUITE F  
CITY: EL PASO  
STATE: TX ZIP: 79936

EMERGENCY TELEPHONE: (404)422-2071  
24 HOUR TELEPHONE: (915)595-2652

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: NA  
MELTING POINT: NA VAPOR PRESSURE: .60  
VISCOSITY: NA SPECIFIC GRAVITY: 1.250  
VAPOR DENSITY: NA WATER SOLUBILITY: PARTIAL

FLASH POINT : NA METHOD: NA  
AUTOIGNITION : NA LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

CLEAR VISCOUS SPRAY, CHLORINATED SOLVENT ODOR.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EZE OFF

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

|                       |     |         |         |
|-----------------------|-----|---------|---------|
| Methylene Chloride    | 80% | 100 PEL | 100 TLV |
| Petroleum Distillates | 1   | 500     | 100     |
| Methanol              | 3   | 200     | 200     |
| Propane               | 10  | 1000    | 1000    |

SECTION III PHYSICAL DATA

Spec. Gravity: 1.25

Sol. in Water: Partial

Appearance and Odor: Clear viscous spray, chlorinated solvent odor.

SECTION IV FIRE AND EXPLOSION DATA

Extinguisher Media: Foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures: Self contained breathing apparatus.

Unusual Fire Fighting Procedures: Self contained breathing apparatus.

Unusual Fire and Explosion Hazards: Do not expose aerosols to temperatures above 130F or the container may erupt.

SECTION V REACTIVITY DATA

Stable

Conditions to Avoid: Open flame, welding arcs, heat

Incompatibility: Alkalies, strong oxidizing materials, amines, potassium, sodium and magnesium.

Hazardous Decomposition Products: CO<sub>2</sub>, CO, HCl, small amounts of phosgene and chlorine.

SECTION VI HEALTH AND HAZARD INFORMATION

Primary Routes of Entry: Inhalation, skin absorption,

Acute Effects

Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.

Eye: Irritation

Skin: Irritation due to defatting of skin.

Ingestion: Possible chemical pneumonitis if aspirated into lungs.

Nausea.

Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.

Emergency and First Aid Procedures

Eye: Flush with water for 15 minutes. If irritated, see physician.

Skin: Wash with soap and water. If irritated, see physician.

Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical aid.

Ingestion: Induce vomiting. Get immediate medical attention.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EZE OFF

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Absorb with suitable medium. Incinerate or landfill according to Local, State and Federal regulations. Do not flush to sewer.  
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory protection: If vapor conc. exceeds TLV, use respirator approved by U.S. Bureau of Mines for organic vapor.  
Protective Gloves: Rubber gloves recommended.  
Eye Protection: Safety glasses recommended  
Ventilation: Adequate ventilation to keep vapor concentration below TLV.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Do not puncture or incinerate containers. Do not store at temperatures above 130F.  
Avoid food contamination. Keep out of reach of children. Avoid breathing vapors.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RECTORSEAL NO. 5

EPNG MSDS NO: 00130  
PRODUCT ITEM NO: 0040595

DATE ISSUED: 04/24/1990  
LAST REVISED DATE: / /

MANUFACTURER

NAME: RECTORSEAL CORPORATION  
ADDRESS:

2830 PRODUCE ROW  
CITY: HOUSTON  
STATE: TX ZIP: 77023

EMERGENCY TELEPHONE: (800) 424-9300  
24 HOUR TELEPHONE: (713) 928-6423

NFPA HEALTH: 2 FIRE: 2 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 322  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 1.1

EVAPORATION RATE: 0.02  
VAPOR PRESSURE: 0.3  
SPECIFIC GRAVITY: 1.370  
WATER SOLUBILITY: 23%

FLASH POINT : 175  
AUTOIGNITION : NA

METHOD: CC  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: Y LIQUID: GAS: SOLID:

REMARKS:

YELLOW PASTE/MILD ODOR.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RECTORSEAL NO. 5

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

Dipropylene Glycol Methyl Ether 23% 100 ppm 100 ppm  
3459-94-8

SECTION III PHYSICAL DATA

Boiling Point: 322  
Spec. Gravity: 1.37  
Vapor Pressure: 0.3  
Vapor Density: 1.1  
Evap. Rate: 0.02  
Sol. in Water: 23%  
Appearance and Odor: Yellow paste/mild odor

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: 175/CC  
Extinguishing Media: Foam, CO2, dry chemical or water fog.  
Special Fire Fighting Procedures: Wear self contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible.  
Unusual Fire and Explosion Hazards: Combustible - moderate flash point. Vapors are heavier than air and may travel along ground or to low spots at considerable distances to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture closed containers.

SECTION V REACTIVITY DATA

Stable  
Conditions to Avoid: Heat, sparks, open flames, and strong oxidizing conditions.  
Incompatibility: Gaseous oxygen, strong oxidizing materials.  
Hazardous Decomposition Products: CO, CO2, and fragmented hydrocarbons.

SECTION VI HEALTH AND HAZARD INFORMATION

Routes of Entry: Inhalation, skin, ingestion  
Health Hazards: Irritation of eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentration.  
Skin irritation, dermatitis, and defatting. Possible liver and kidney damage.  
Signs and Symptoms of Exposure  
Eyes: Watering, blurred vision, inflammation, and irritation which can result in corneal injury.  
Inhalation: Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RECTORSEAL NO. 5

Ingestion: nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

Skin: Irritation, dermatitis.

Medical Conditions Generally Aggravated by Exposure: Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver or kidneys may have increased susceptibility to excessive exposures.

Emergency and First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 minutes.

Seek immediate medical attention.

Inhalation: Remove to fresh air. Administer oxygen or artificial respiration if needed. Seek immediate medical attention.

Ingestion: Give large amounts of water. Induce vomiting. If unconscious, do not give anything by mouth or attempt to induce vomiting. Seek medical attention.

Skin: Wash with soap and water. If irritation occurs, seek medical attention.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Use absorbent materials to prevent footing hazard. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Dispose of cleanup materials and liquid waste in controlled incineration facilities in accordance with all local, state, and federal regulations.

Keep container closed when not in use. Do not store near heat, sparks, or open flames.

Avoid prolonged or repeated contact with skin or clothing.

Empty containers may contain residues and vapors; treat as if full and observe all product precautions. Do not reuse empty containers. Keep out of reach of children.

SECTION VIII SPECIAL PROTECTION INFORMATION

N/A

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: THINNER                      TEXADINE                      (NO MSDS AVAILABLE)

EPNG MSDS NO: 02359  
PRODUCT ITEM NO: 0040821

DATE ISSUED:    /    /  
LAST REVISED DATE:    /    /

MANUFACTURER

NAME: TEXADINE  
ADDRESS:

CITY:                      EMERGENCY TELEPHONE: (    )    -  
STATE:                      24 HOUR TELEPHONE: (    )    -

NFPA HEALTH:            FIRE:            REACTIVITY:  
CERCLA HEALTH:           FIRE:            REACTIVITY:            PERSISTENCE:

MOLECULAR FORMULA:                      TRADE SECRET: N  
MOLECULAR WEIGHT:                      TIER II REPORTABLE:

BOILING POINT:                      EVAPORATION RATE:  
MELTING POINT:                      VAPOR PRESSURE:  
VISCOSITY:                      SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY:                      WATER SOLUBILITY:

FLASH POINT :                      METHOD:  
AUTOIGNITION :                      LEL:                      UEL:

PHYSICAL FORMS    PURE:            MIX:            LIQUID:            GAS:            SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: THINNER                      TEXADINE              (NO MSDS AVAILABLE)

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

N/A

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

N/A

SECTION V REACTIVITY DATA

N/A

SECTION VI HEALTH AND HAZARD INFORMATION

N/A

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

N/A

SECTION VIII SPECIAL PROTECTION INFORMATION

N/A

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PAINT THINNER 7T33

EPNG MSDS NO: 00050

DATE ISSUED: 02/22/1984

PRODUCT ITEM NO: 0040827

LAST REVISED DATE: / /

MANUFACTURER

NAME: MOBIL CHEMICAL  
ADDRESS: 150 JFK PARKWAY

CITY: NEW JERSEY  
STATE: NJ ZIP: 07078

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: (201) 467-8500

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 175  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 3.2

EVAPORATION RATE: 5.7  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.900  
WATER SOLUBILITY: NIL

FLASH POINT : 22  
AUTOIGNITION : NA

METHOD: TOC  
LEL: 1.2 UEL: 7.0

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

BLACK LIQUID / AROMATIC ODOR

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PAINT THINNER 7T33

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

NAME %WEIGHT TLV UNITS:

Organic Solvent (s) >95.0 >100 ppm

For additional application and/or use information request latest material safety data sheet and product data sheet for specific product contained in this shipment.

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: >20 -<100

FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, and/or water fog.

FIRE FIGHTING PROCEDURES:

Firefighting must wear self-contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Strong Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide and carbon monoxide

HAZARDOUS POLYMERIZATION: None

SECTION VI HEALTH AND HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

Eye irritation, respiratory irritation, dizziness, nausea, loss of consciousness.

EMERGENCY AND FIRST AID PROCEDURES:

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PAINT THINNER 7T33

INHALATION: Remove person from exposure area. If breathing has stopped, use mouth to mouth resuscitation and get medical attention.

EYE CONTACT: Flush with water for 15 minutes. Get medical attention.

SKIN CONTACT: Wash with soap and water.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL OR LEAK PROCEDURES:

Ventilate area. Avoid breathing of vapors. Use self-contained breathing apparatus or air mask for large spills in a confined area. Avoid contact with eyes. Wipe up or absorb on suitable material and shovel up. Report spills as required to appropriate authorities. In case of accident or road spills, notify Chemtrec (800) 424-9300.

WASTE DISPOSAL METHOD:

Dispose in chemical disposal area or in a manner that complies with local, state and federal regulations. Do not incinerate closed containers.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

VENTILATION:

LOCAL: Required for spraying or in a confined area.

OTHER: None

PROTECTIVE GLOVES: Usual industrial hand protection.

EYE PROTECTION: Chemical type goggles.

OTHER PROTECTIVE EQUIPMENT: Usual clothing for industrial operations.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Containers should be grounded when pouring. Avoid free of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120 F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

DEPARTMENT OF TRANSPORTATION HAZARD CLASSIFICATION:

Shipping Name: Paint Related Material

Hazard Class: Flammable Liquid

Hazard Identification Number: NA1263

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PAINT THINNER 7T33

OTHER SHIPPING INFORMATION:

WARNING! Flammable. Vapor harmful. Causes eye irritation

THIS DATA IS BASED ON FORMULATION IN EFFECT AT DATE OF ISSUE. CONSULT MANUFACTURER ON CURRENT PUBLICATIONS.

We believe all information given in this form is accurate and is offered in good faith, but without guarantee. Since conditions of use and suitability of the product covered herein for particular uses are beyond our control, all risks of use of the product covered herein are assumed by the user and we EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT COVERED IN THIS FORM. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending license under valid patents.

Where the information provided herein disclosed a potential hazard or hazardous ingredient, adequate warning should be provided to employees and users and appropriate precautions taken including the practice of good industrial hygiene.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: REAL COOL SNOOP

EPNG MSDS NO: 01417  
PRODUCT ITEM NO: 0052946

DATE ISSUED: 08/27/1985  
LAST REVISED DATE: 10/30/1985

MANUFACTURER

NAME: NUPRO  
ADDRESS: 4800 EAST 345TH ST

CITY: WILLOUGHBY  
STATE: OH ZIP: 44094

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: APPROX 212F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 1.000  
WATER SOLUBILITY: HIGHLY SOLUBLE

FLASH POINT : >212F  
AUTOIGNITION : NA

METHOD: NA  
LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: REAL COOL SNOOP

SECTION I MATERIAL IDENTIFICATION

FORMULA: Proprietary

SNOOP is a very pure, liquid leak detector used to detect leaks in pressurized gas systems. It is non-toxic, non-flammable and gives positive indication of leakage by the formation of bubbles-even on vertical surfaces.

SNOOP is primarily comprised of deionized water containing a surfactant of the alkyl aromatic class and surpasses the performance requirements of Military Specification MIL-L-25567C, Type I. The actual chemical formulation of SNOOP is proprietary.

Periodic mass spectrometer analyses verify that SNOOP contains less than one (1) ppm total halogens (chlorides, iodides, fluorides, and bromides).

A semi-quantitative scan of SNOOP indicated the presence of the following fourteen (14) elements in quantities of less than one (1) ppm.

|          |           |           |
|----------|-----------|-----------|
| Aluminum | Mercury   | Lead      |
| Calcium  | Magnesium | Silicon   |
| Chromium | Manganese | Barium    |
| Copper   | Nickel    | Potassium |
| Iron     | Sodium    |           |

Also included in the scan were the following nineteen (19) elements of which none were detected:

|           |           |           |
|-----------|-----------|-----------|
| Silver    | Cadmium   | Titanium  |
| Arsenic   | Cobalt    | Vanadium  |
| Beryllium | Antimony  | Tungsten  |
| Boron     | Tin       | Zinc      |
| Columbium | Strontium | Zirconium |
| Lithium   | Germanium | Indium    |
| Bismuth   |           |           |

SNOOP is clear, odor-free and will boil at approx. 212F. It is easily removed with absorbent material or may be allowed to air dry. No special health or hazard precautions are necessary in ordinary usage.

SNOOP will indicate leakages less than 0.2 cc/hr ( $5.6 \times 10^{-5}$  cc/sec) with a differential pressure of 5 psi at 70F.

SNOOP may be used for leak detection on Oxygen systems from 27 F to 200 F.

SECTION II INGREDIENTS AND HAZARDS

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: REAL COOL SNOOP

VEHICLE DEMIN. H2O

ADDITIVES: Surfactant

OTHERS: Halides 1ppm

HAZARDOUS INGREDIENTS: Common Name: Anti-Freezing Agent  
Chemical Name: Ethylene Glycol

SECTION III PHYSICAL DATA

BOILING POINT: Approx 212F

SPECIFIC GRAVITY: Approx 1.0

SOLUBILITY INWATER: Highly Soluble

COLOR: Clear with slight haze

PHYSICAL STATE: Liquid

FLASH POINT: Greater than 212F

SECTION IV FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION: Residue left after evaporation is slightly flammable and can ignite when exposed to an open flame. may form toxic materials during combustion--carbon monoxide, etc.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents (e.g Nitric Acid, permanganates, etc).

SECTION V REACTIVITY DATA

INCOMPATIBILITY: Used as directed with oxygen

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: 220 ppm

SWALLOWING: Moderately toxic. can cause gastrointestinal irritation. nausea, vomiting and diarrhea. Large doses can cause kidney damage.

SKIN: Slight irritant. may cause itching and/or redness after prolonged contact.

NASAL AND RESPIRATORY SYSTEM: Very slight irritant in mist form  
Avoid excessive inhalation of mist and vapors.

FIRST AID:

EYE OR SKIN CONTACT: Flush with plenty of water

EXCESSIVE INHALATION: Remove individual to fresh air.

SWALLOWED: Give two glasses of water and induce vomiting. Never give anything orally to an unconscious person.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: REAL COOL SNOOP

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wipe up with a dry rag or allow spilled SNOOP to dry (evaporate)

WASTE DISPOSAL METHOD: Same as water

For small spills, dry with any absorbent material. For large spills, rinse with water to a sanitary sewer.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None

VENTILATION: Local Exhaust: OK

Mechanical: OK

PROTECTIVE GLOVES: NO

EYE PROTECTION: STD. Shop eye protection

OTHER PROTECTIVE EQUIPMENT: STD SHOP PROTECTION (Only if req'd by plant regulations)

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Plastic containers will leak if punctured.

OTHER PRECAUTIONS: Store at room temperature only. (50 to 100F only)  
To prevent freezing or deterioration.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: COMPRESSED ASBESTOS GASKET SHEETS

EPNG MSDS NO: 01045  
PRODUCT ITEM NO: 0045410

DATE ISSUED: 04/13/1987  
LAST REVISED DATE: / /

MANUFACTURER

NAME: GARLOCK INC  
ADDRESS: 1666 DIVISION ST

CITY: PALMYRA  
STATE: NY ZIP: 14522

EMERGENCY TELEPHONE: (315) 597-4811  
24 HOUR TELEPHONE: (315) 597-4811

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA TRADE SECRET: N  
MOLECULAR WEIGHT: NA TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: NA  
MELTING POINT: NA VAPOR PRESSURE: NA  
VISCOSITY: NA SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: NA WATER SOLUBILITY: NEG

FLASH POINT : NA METHOD: NA  
AUTOIGNITION : NA LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: COMPRESSED ASBESTOS GASKET SHEETS

SECTION I MATERIAL IDENTIFICATION

TRADE NAME: Styles 7021, 7021T, 7405, 7819, and 9533  
Compressed Abestos Sheets

SYNONYMS: Styrene-Butadiene Elastomer Bonded Compressed Asbestos Sheet

SECTION II INGREDIENTS AND HAZARDS

INGREDIENTS: Chrysotile (white) Asbestos\*

PERCENT: %

TLV: 0.2 fibers longer than 5 micrometers per cubic centimeter of air.  
(OSHA PEL).

CAS NUMBER: 12001-29-5

\* The asbestos fiber is bound and encapsulated by a vulcanized elastomer matrix. The fibers DO NOT present a hazard as long as the matrix intact.

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Grey-black to black sheet or gasket - Slight odor.

SECTION IV FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: If fire involves substantial quantities of product, self contained breathing apparatus should be used due to smoke produced and possible release of asbestos fibers in binder is burned.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Produces smoke, some fumes and possibly some free asbestos fibers when burned.

SECTION V REACTIVITY DATA

STABILITY: The asbestos sheets are stable under normal conditions of storage and use.

INCOMPATIBILITY: Avoid storage with strong oxidizing agents. Direct flame will ignite binder.

HAZARDOUS DECOMPOSITION PRODUCTS:

In a fire: Smoke, possibly carbon monoxide under certain circumstances. Some asbestos fibers may be released once binder has burned. There

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: COMPRESSED ASBESTOS GASKET SHEETS

may be other products unknown to us.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

SECTION VI HEALTH AND HAZARD INFORMATION

EFFECTS OF EXPOSURE:

These products do not pose a health hazard under ordinary conditions of use. A hazard would arise only if the products were subjected to mechanical actions that would cause the asbestos fibers to be released from the elastomer compound matrix.

Inhalation of such airborne fibers can cause the well-known long term effects of Asbestosis, lung cancer and mesothelioma.

INGESTION: Free asbestos fibers may be a factor in cancers of the GI tract and larynx. Such cancers are believed to be smoking related.

SKIN AND EYE CONTACT: Simple irritation in sensitive individuals.

MEDICAL CONDITIONAL PRONE TO AGGRIVATION BY EXPOSURE:

Inhaling free asbestos fibers may aggravate any lung conditions and respiratory tract irritations.

EMERGENCY FIRST AID PROCEDURES

INHALATION (OF FIBER): Remove victim from contaminated area. Report exposure to medical personnel.

INGESTION (OF FIBER): No specific action. Report exposure to medical personnel.

SKIN: Wash area of contact thoroughly with soap and water. Contact a physician if irritation persists.

EYE CONTACT: If particles get in the eyes irrigate, well with water. Contact a physician as a precaution.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wet waste. Vacuum up any waste with NEPA filtered vacuum cleaner. Wear protective equipment and half face respirator with HEPA filters.

WASTE DISPOSAL METHOD:

Since the asbestos in the product is secured with a binder and is not friable or loose, the product can be disposed of with other

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: COMPRESSED ASBESTOS GASKET SHEETS

inert materials in a normal landfill.

Grinding or machining of the product should be avoided since these, or similar operations may generate asbestos dust. Any such dust should be wetted and vacuumed up with NEPA filtered vacuum cleaner, sealed in a plastic bag and disposed of in accordance with instructions from a disposal company. The user is responsible for complying with any local, state or federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Not required under normal conditions of use. If any operations are performed on the product that may release asbestos fibers, use a NIOSH approved half face respirator with HEPA filters.

VENTILATION REQUIREMENTS:

No special requirement under normal conditions product that may release asbestos fibers, sufficient ventilation should be provided to keep fiber level below 0.2 fibers per cc.

EYE PROTECTION: Wear safety glasses.

PROTECTIVE GLOVES AND CLOTHING: Not required under ordinary conditions of use.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in clean, dry place away from strong oxidizing agents. Normal wash up after handling is recommended.

SPECIAL PRECAUTIONS: Asbestos bonded by an elastomer compound, however, do not misuse by improper cutting or handling. See OSHA Regulations 29 CFR 1910.1001.

When removing used gaskets, avoid excessive mechanical actions and place the asbestos containing residues in a plastic bag for disposal. As a precaution, a half face respirator with HEPA filters should be worn to individuals when engaged in removal of used gaskets.

NOTE: The information provided herein is accurate to the best of our knowledge, but no warranty, express or implied is made.

PREPARED BY: K. P. Hughes, Supvr. Chemist

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GRAY #5 PAINT 420-F-38

EPNG MSDS NO: 00063  
PRODUCT ITEM NO: 0046094

DATE ISSUED: 11/25/1985  
LAST REVISED DATE: / /

MANUFACTURER

NAME: THE VALSAR CORPORATION  
ADDRESS:

1101 3RD STREET  
CITY: MINNEAPOLIS  
STATE: MN ZIP: 55415

EMERGENCY TELEPHONE: (800)228-5635  
24 HOUR TELEPHONE: (612)332-7371

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 315 DEG F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 4.80

EVAPORATION RATE: .13  
VAPOR PRESSURE: 5.0  
SPECIFIC GRAVITY: 1.040  
WATER SOLUBILITY: NO

FLASH POINT : 101  
AUTOIGNITION : NA

METHOD: NA  
LEL: 0.80 UEL: 6.00

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:  
NONE

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GRAY #5 PAINT 420-F-38

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

N/a

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: 100-200

Fire-fighters must wear self-contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, and/or Water Fog

SECTION V REACTIVITY DATA

STABILITY: Stable

CONDITION TO AVOID: None

INCOMPATIBILITY: NA

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide/Monoxide

HAZARDOUS POLYMERIZATION: None

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: Not required for mixture.

EFFECTS OF OVEREXPOSURE:

IMMEDIATE EFFECTS (ACUTE):

Harmful if inhaled. May affect the brain, nervous system or respiratory system, causing dizziness, headache, nausea or respiratory irritation. Overexposure to ingredients in this product may cause nose and throat irritation, eye irritation, skin irritation.

DELAYED EFFECTS (CHRONIC):

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Any respiratory or skin condition.

EMERGENCY AND FIRST AID PROCEDURES:

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GRAY #5 PAINT 420-F-38

INHALATION: Remove person from exposure area. If breathing has stopped, use mouth-to-mouth resuscitation and get medical attention.

EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water.

POSSIBLE ROUTES OF ENTRY: Inhalation, ingestion, skin absorption.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

VENTILATE AREA. Avoid breathing of vapors, use self-contained breathing apparatus or airmask for large spills in a confined area. Wipe up or absorb on suitable material and shovel up. Avoid contact with eyes.

WASTE DISPOSAL METHOD:

Dispose in chemical disposal area or in a manner that complies with local, state, and federal regulations. Do not incinerate closed containers.

SECTION VIII SPECIAL PROTECTION INFORMATION

N/A

RESPIRATORY PROTECTION:

Wear appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring vapor/mist levels are below applicable limits. Follow respirator manufacturers directions for respirator use.

VENTILATION:

Required for spraying or in a confined area. ventilation equipment should be explosion proof.

PROTECTIVE GLOVES: Usual hand protection for paint application.

EYE PROTECTION: Usual eye protection for applying paint.

OTHER PROTECTIVE EQUIPMENT: Usual clothing for painting operations.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120 Deg F based on the product flash OSHA regulation 1910.105. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been cleaned or reconditioned.

ABBREVIATIONS USED:

OSHA-occupational safety and health administration; IARC-International

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GRAY #5 PAINT 420-F-38

agency for research on cancer; Lel-lower explosive limits; Uel-upper explosive limits; mg cu m-milligrams per meters cubed; mm-millimeters mppcf-millins of particles per cubic foot; MSHA-mine safety and health.

SPECIAL PRECAUTIONS:

Administration : NA

NIOSH -national institute of occupational safety and health; not est-not established; NTP-National toxicology program; PB-lead; Pel-Permissible exposure level; ppm-parts per million; TCC/pm tag closed cup/pensky-marten; recm-maren; recm-recommended; TLV-Threshold Limit Values.

The furnishing of the information contained herein does not constitute a representation by Valspar that any product or process is free from patent infringement claims of any third party or does it constitute acceptance of particular purpose. Receipt of products from Valspar constitutes acceptance of the terms of this warranty, contrary provisions of purchase orders notwithstanding in the event that Valspar finds that the product delivered are off-specification. Valspar will, at its sole discretion, either replace the products or refund the purchase price thereof, and valspar's choice of one of these remedies shall be buyers sole remedy. Valspar will under no circumstances be liable for consequential damages, except insofar as a liability is mandated by law. Valspar will deliver products at agreed times insofar as it is reasonably able to do so, but Valspar shall not be liable for failure to deliver on time when the failure is beyond its reasonable control.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GREEN #5 PAINT 420 SERIES

EPNG MSDS NO: 00068  
PRODUCT ITEM NO: 0046097

DATE ISSUED: 07/01/1981  
LAST REVISED DATE: / /

MANUFACTURER

NAME: THE VALSPAR CORPORATION  
ADDRESS:

150 JFK PARKWAY  
CITY: SHORT HILLS EMERGENCY TELEPHONE: (800)424-9300  
STATE: NJ ZIP: 07078 24 HOUR TELEPHONE: (201)467-8500

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: NA  
MELTING POINT: NA VAPOR PRESSURE: NA  
VISCOSITY: NA SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: NA WATER SOLUBILITY: NA

FLASH POINT : 100-200 METHOD: NA  
AUTOIGNITION : NA LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:  
NONE

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GREEN #5 PAINT 420 SERIES

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

|                    |       |            |
|--------------------|-------|------------|
| Lead               | 0.06% | 0.15 mg/M3 |
| Organic Solvent(s) | 10.00 | 100 PPM    |

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: 100-200

Fire fighters must wear self-contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.

SECTION V REACTIVITY DATA

Stable

Incompatibility: Metal oxides, carbon dioxide and carbon monoxide.

SECTION VI HEALTH AND HAZARD INFORMATION

Effects of Overexposure: Eye irritation, respiratory irritation, dizziness, nausea, loss of consciousness.

First Aid Procedures: Inhalation: Remove person from exposure area. If breathing has stopped use mouth to mouth resuscitation and get medical attention.

Eye Contact: Flush with water for 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Ventilate area. Avoid breathing of vapors. Use self-contained breathing apparatus or air mask for large spills in a confined area. Avoid contact with eyes. Wipe up or absorb on suitable material and shovel up. Report spills as required to appropriate authorities. In case of accident or road spills notify Chemtrec 800-424-9300. Dispose in chemical disposal area or in a manner that complies with Local, State and Federal Regulations. Do not incinerate closed containers.

SECTION VIII SPECIAL PROTECTION INFORMATION

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

Ventilation: Required for spraying or in a confined area.

Ventilation equipment should be explosion proof.

Protective Gloves: Usual hand protection for handling paint products.

Eye Protection: Chemical type goggles.

Usual clothing for handling paint products.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DARK GREEN #5 PAINT 420 SERIES

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106.  
Vapor harmful. Causes eye irritation. Combustible.

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

EPNG MSDS NO: 01143  
PRODUCT ITEM NO: 0057957

DATE ISSUED: 07/01/1987  
LAST REVISED DATE: / /

MANUFACTURER

NAME: EVEREADY BATTERY CO INC  
ADDRESS: CHECKERBOARD SQUARE

CITY: ST. LOUIS  
STATE: MO ZIP: 63164

EMERGENCY TELEPHONE: (202) 625-3333  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA:  
MOLECULAR WEIGHT:

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT:  
MELTING POINT:  
VISCOSITY:  
VAPOR DENSITY:

EVAPORATION RATE:  
VAPOR PRESSURE:  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY:

FLASH POINT :  
AUTOIGNITION :

METHOD:  
LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

IMPORTANT NOTE: The Battery Container should not be opened or Incinerated since the following ingredients contained within could be harmful under some circumstances if exposed.

| MATERIAL OF INGREDIENT    | %       | TLV (ACGIH)                      | PEL (OSHA)                       |
|---------------------------|---------|----------------------------------|----------------------------------|
| Inganese Dioxide          | 18-50   | 5mg/m3 Ceiling<br>(As Manganese) | 5mg/m3 Ceiling<br>(As Manganese) |
| Zinc Metal                | 5-22    | 10mg/m3                          | 15mg/m3                          |
| Potassium Hydroxide       | 3-10    | 2mg/m3                           | 2mg/m3                           |
| Carbon (Natural Graphite) | 1-8     | 2.5 mg/m3                        | 15 mppcf                         |
| Mercury                   | 0.2-0.8 | 0.5mg/m3                         | 0.1mg/m3 Ceiling                 |

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

In case of fire in an adjacent area, it is permissible to use any class of extinguishing medium on these batteries or their packing material.

See also Section V - Handling and Disposal precautions.

SECTION V REACTIVITY DATA

N/A

SECTION VI HEALTH AND HAZARD INFORMATION

EFFECTS OF SINGLE EXPOSURE TO CONTENTS:

SWALLOWING: Contenting may cause severe burns of the mouth, throat, and stomach with severe abdominal and chest pain, nausea, vomiting, diarrhea, chills, feveer, muscle pain, dizziness, faintness, drowsi-ness, drowsiness, circulatory collapse and coma.

SKIN ABSORPTION: No evidence of adverse effects from available information.

INHALATION: Dusts or particles from contents may cause respiratory irritation.

SKIN CONTACT: Contents cause chemical burns, seen as marked local redness with swelling.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

EYE CONTACT: Content will cause severe irritation, seen as marked excess redness and swelling of the conjunctiva and chemical burns of the cornea.

EFFECTS OF REPEATED EXPOSURE TO CONTENTS:

Repeated exposure to battery contents may affect the central nervous system, with signs and symptoms indistinguishable from Parkinsonism, such as abnormal gait, mask-like face, apathy, loss of appetite, headache, sleepiness, weakness, fatigue, muscular twitching, clumsiness, speech difficulties, memory loss, swallowing difficulties, and urinary bladder disturbances.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO CONTENTS:

Because of its irritating properties, the contents may aggravate an existing dermatitis.

Breathing of dusts or particles from contents may aggravate asthma and inflammatory or fibrotic pulmonary disease.

Prolonged and repeated overexposure to contents may aggravate any existing neurological conditions.

EMERGENCY AND FIRST AID PROCEDURE:

SWALLOWING: Do not induce vomiting. Seek a medical attention immediately. (See Notes to physician below)

SKIN: Remove contaminated clothing. If the contents from an opened battery come in contact with the skin, wash thoroughly with soap and water. If irritation persists or contact has been prolonged, see a physician.

INHALATION: Remove to fresh air.

EYES: If the contents from an opened battery come in contact with the eyes, immediately flush eyes thoroughly with water and continue flushing for at least 15 minutes. Seek medical attention urgently.

NOTES TO PHYSICIAN:

Mediastinitis from perforated esophagus, or peritonitis from gastric perforation may occur. Aspirated alkaline material could produce severe lung damage. Due to the severely irritant nature of the material, gastric lavage should be carried out with caution.

Treatment of exposure should be directed at the control of symptoms and the clinical condition. Blood and urinary mercury levels may be

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

estimated as soon as possible after ingestion and subsequently thereafter if indicated by the clinical course of events. Chelation therapy may increase excretion of mercury and manganese. L-Dopa may improve the neurologic symptoms.

If ingestion of the battery is suspected, do not induce vomiting. Do not give any food or drink until foreign body has been identified.

Perform a radiographic study from the nasopharynx to the anus to identify location of the battery.

If the battery has lodged in the esophagus, immediate removal is indicated using the appropriate technique. The patient should be observed for signs or symptoms of esophageal perforation. In addition, the patient should be observed for signs or symptoms of stenosis, which most commonly occurs 2 or 3 weeks post-ingestion.

If the battery has passed through the esophagus, and is in the stomach or beyond, "watchful expectancy" is indicated. cathartics may be administered to hasten transit time.

Frequent X-rays are not necessary. It may take as long as 10 days for a battery to pass. A simple rule of thumb is to re-X-ray if the battery does not appear in the stool after three days, Examine all stools.

If the battery becomes lodged in the stomach or intestinal tract a cathartic and/or an enema may be indicated, plus observation for signs of perforation or obstruction. Instruct the family of possible obstructive symptoms or signs which they might observe in the patient. Test for occult blood. Have the family observe the patient's stools for signs of blood. The family can perform hemocult type testing for occult blood at home with test packages provided by a local laboratory.

All cases should be reported immediately to the National Battery Ingestion Hotline for advice and follow-up. The number is 202.625-3333; it is open 24 hours a day.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

N/A

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Not necessary under conditions of normal use

RESPIRATORY PROTECTION: Not necessary under conditions of normal use.

EYE: Not required under conditions of normal use.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

GLOVES: use neoprene or natural rubber gloves if handling an open or leaking battery.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

STORAGE: Safe stacking of battery cartons is no more than 60" high including the pallet and no more than 3 pallets high.

MECHANICAL CONTAINMENT: DO NOT SEAL THESE BATTERIES IN AIRTIGHT OR WATERTIGHT CONTAINER. Batteries normally evolve hydrogen which, when combined with oxygen from the air, can provide a combustible or explosive mixture unless vented. Short circuits, high temperatures or static sparks could then cause an ignition.

Full encapsulation (potting) of these batteries will prevent proper operation of safety vent, if internal pressure exceeds design limit, and can result in a high-pressure rupture.

HANDLING: Accidental short circuit for a few seconds will not seriously harm this battery. Avoid prolonged short circuit, however, since the battery will lose energy and, at high temperatures, can even rupture. The high temperature achievable under continuous short circuit can be a source of skin burns. Metal covered tables or metal belts used for assembly of batteries into devices can be the source of short circuits apply insulating material to assembly work surface.

If soldering or welding to the terminal or case of the battery is required, consult your Eveready Battery Company Representative for proper precautions to prevent seal damage or internal short circuit.

CHARGING: This battery is manufactured in a charged state. It is not designed for recharging. To do so may cause battery leakage or, in some cases, cell explosion.

LABELLING: if the normal EVEREADY label or package warnings are not visible, it is important to provide a package or device label stating:

WARNING: DO NOT DISPOSE IN FIRE, RECHARGE, PUT IN BACKWARDS, MIX WITH USED OR OTHER BATTERY TYPES--MAY EXPLODE, LEAK AND CAUSE PERSONAL INJURY.

Where accidental ingestion of small cells is possible, include the label-warning; KEEP AWAY FROM SMALL CHILDREN. IF SWALLOWED, PROMPTLY SEE DOCTOR; HAVE DOCTOR PHONE (202) 625-3333 COLLECT.

DISPOSAL: DO NOT INCINERATE or subject cells to temperature in excess 100C (212F). Such treatment can vaporize the liquid electrolyte and cause cell rupture.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EVEREADY BATTERY ENERGIZER ALKALINE

Bury in landfill in accordance with appropriate Federal, state and local regulations.

NOTICE: The information and recommendations set forth above are made in good faith and believed to be accurate as of the date of preparation. However, Eveready Battery Company, Inc, make no warranty, express or implied, with respect to this information and disclaims all liabilities from reliance on it.



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMBASSADOR VINYLITE WALL FINISH PAINT

EPNG MSDS NO: 00164  
PRODUCT ITEM NO: 0046309

DATE ISSUED: 06/01/1988  
LAST REVISED DATE: 01/01/1984

MANUFACTURER

NAME: HANLEY PAINT MFG  
ADDRESS: COMPANY INC.

CITY: EL PASO  
STATE: TX ZIP:

EMERGENCY TELEPHONE: (915)533-1244  
24 HOUR TELEPHONE: (915)533-7481

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 212F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: LIGHTER AIR

EVAPORATION RATE: SLOWER  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: NA

FLASH POINT : NONE  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMBASSADOR VINYLITE WALL FINISH PAINT

SECTION I MATERIAL IDENTIFICATION

PRODUCT NUMBER: 40-001, 40-002, 40-DB, 40-mb, 40-WB, 40-Series

PRODUCT CLASS: Latex Flat Paint

PRODUCT NAME: Ambassador Vinylite Wall Finish  
White, Antique White, Deep Base, Medium Base, White Base, Colors

SECTION II INGREDIENTS AND HAZARDS

\* TLV: Threshold Limit Value

PEL: Permissible Exposure Level

mm Hg: millimeters mercury

mg/m3: milligrams per cubic meter

| INGREDIENT                 | PERCENT<br>BY WT | OCCUPATIONAL<br>EXPOSURE LIMITS |      | VAPOR PRESSURE<br>PRESSURE<br>mmHg @ 68F |
|----------------------------|------------------|---------------------------------|------|--|
|                            |                  | TLV*                            | PEL* |  |
| Ethylene Glycol            | 2%               | 50 ppm                          |      | 0.1                                      |
| Mercury as Phenyl Mercuric |                  |                                 |      |  |
| Acetate                    | 0.04%            | 0.1 mg/m3                       |      |  |

SECTION III PHYSICAL DATA

Boiling Point: 212F

Vapor Density: Lighter than air

Evaporation Rate: Slower than ether & Volatile Volume: 63%

WT/GAL: 11.7 lb

Volatile organic compounds (VOC): 0.9 to 1.0 lb/gal  
108 to 115 grams/liter

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: NA

Extinguishing Media: Foam, CO2, dry chemical, Water Fog

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI HEALTH AND HAZARD INFORMATION

Effects of Overexposure

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Breathing: Can cause nasal and respiratory irritation, dizziness, weakness, nausea, headache, unconsciousness or asphyxiation.

Skin: Can cause moderate irritation, dermatitis, defatting.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMBASSADOR VINYLITE WALL FINISH PAINT

Swallowing: Can cause gastrointestinal irritation, nausea, vomiting.

Primary Routes of Entry: Inhalation, ingestion

Emergency and First Aid Procedures

Eyes: Flush with large amounts of water, get medical attention.

Breathing: Bring person to fresh air, resuscitate if unconscious, get medical aid.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Swallowing: Do not induce vomiting. Get immediate medical attention.

Target Organs: Skin, Eyes, Respiratory System, Central Nervous System.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb on absorbent material and dispose in accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If sprayed, use masks recommended for spraying latex paints

VENTILATION: if used indoors, open windows and doors and provide moderate mechanical exhaust ventilation.

PROTECTIVE GLOVES: Wear plastic or rubber gloves

EYE PROTECTION: Wear protective goggles

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from children. Keep from freezing.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WHITE ENAMEL PAINT

EPNG MSDS NO: 00086  
PRODUCT ITEM NO: 0046312

DATE ISSUED: 07/01/1981  
LAST REVISED DATE: / /

MANUFACTURER

NAME: VALSPAR CORPORATION  
ADDRESS:

1101 3RD ST. SOUTH  
CITY: MINNEAPOLIS  
STATE: MN ZIP: 55415

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: (612) 332-7371

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: NA  
MELTING POINT: NA VAPOR PRESSURE: NA  
VISCOSITY: NA SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: NA WATER SOLUBILITY: NA

FLASH POINT : 100 - 200 F METHOD: TCC/PM  
AUTOIGNITION : NA LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WHITE ENAMEL PAINT

SECTION I MATERIAL IDENTIFICATION

CHEMICAL NAME AND FAMILY:

PAINT PRODUCT For: 20-W-9 and 420 series paints

SECTION II INGREDIENTS AND HAZARDS

| INGREDIENT | %WT | TLV units |
|------------|-----|-----------|
|------------|-----|-----------|

|      |              |                        |
|------|--------------|------------------------|
| LEAD | > or = 0.06% | 0.15 mg/m <sup>3</sup> |
|------|--------------|------------------------|

|                    |               |                |
|--------------------|---------------|----------------|
| ORGANIC SOLVENT(S) | > or = 10.00% | > or = 100 PPM |
|--------------------|---------------|----------------|

For additional application and/or use information request latest Material Safety Data Sheet and Product Data Sheet for specific products contained in this shipment.

SECTION III PHYSICAL DATA

N/A

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: 100-200

Extinguishing Media: Carbon dioxide, dry chemical, foam, and/or water fog.

Fire fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.

Unusual Fire and Explosive Hazards: None

SECTION V REACTIVITY DATA

Stable

Hazardous Decomposition Products: Carbon dioxide/monoxide and metal oxides

SECTION VI HEALTH AND HAZARD INFORMATION

Effects of Overexposure: Respiratory irritation, dizziness, nausea, loss of consciousness.

Emergency and First Aid Procedures:

Inhalation: Remove person from exposure area. If breathing has stopped use mouth to mouth resuscitation and get medical attention.

Eye Contact: Flush with water for 15 minutes.

Skin Contact: Wash with soap and water.

Possible Routes of Entry: Inhalation, ingestion, skin absorption.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Ventilate area. Avoid breathing of vapors. Use self-contained breathing apparatus or airmask for large spills in a confined area.

Wipe up or absorb on suitable material and shovel up. Avoid contact

EL PASO NATURAL GAS  
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WHITE ENAMEL PAINT

with eyes. Report spills as required to appropriate authorities.  
In case of accident or road spills notify chemtrec (800) 424-9300.

Waste Disposal Method: Dispose in chemical disposal area or in a manner that complies with Local, State and Federal Regulations. Do not incinerate closed containers.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection:

Use appropriate Bureau of Mines approved respiratory device in confined areas and spray applications.

Ventilation: Required for spraying or in a confined area.

Ventilation equipment should be explosion proof.

Protective Gloves: Usual hand protection for paint application.

Eye Protection: Chemical type goggles.

Other Protective Equipment: Usual clothing for handling paint products.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

HANDLING AND STORAGE:

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. DO NOT store above 120 F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GLASS CLEANER

EPNG MSDS NO: 00786  
PRODUCT ITEM NO: 0012227

DATE ISSUED: 08/28/1987  
LAST REVISED DATE: / /

MANUFACTURER

NAME: SPRAYWAY, INC  
ADDRESS: 484 VISTA

CITY: ADDISON,  
STATE: IL ZIP: 60101

EMERGENCY TELEPHONE: (800)228-5635  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA TRADE SECRET: N  
MOLECULAR WEIGHT: NA TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: SAME AS H2O  
MELTING POINT: NA VAPOR PRESSURE: NA  
VISCOSITY: NA SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: UNDETERMINED WATER SOLUBILITY: NA

FLASH POINT : NA METHOD: NA  
AUTOIGNITION : NA LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GLASS CLEANER

SECTION I MATERIAL IDENTIFICATION

TRADE NAME AND SYNONYMS: GLASS CLEANER

SECTION II INGREDIENTS AND HAZARDS

| HAZARDOUS COMPONENTS        | PEL  | TLV  | % OPT. |
|-----------------------------|------|------|--------|
| Ethyl alcohol (cas#64-17-5) | 1000 | 1000 | 10-20  |
| 2 Butoxyethanol (111-76-2)  | 50   | 25   | <5     |
| LPG propellant (68476-85-7) | 1000 | 1000 | <5     |
| Non-hazardous ingredients   | NA   | NA   | Bal.   |

\*Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200)

SECTION III PHYSICAL DATA

BOILING POINT: 175-212F SPECIFIC GRAVITY: 0.95

VAPOR PRESSURE (mmHg): (psig @ 130F) 140 SOLUBILITY IN WATER: Complete

VAPOR DENSITY (AIR-1): >1

EVAPORATION RATE: (BuAc=1) <1

APPEARANCE AND ODOR: Wide hollow cone spray; semi-stable foam; solvent/floral odor.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Liquid NE: Propell <0.F

FLAMMABLE LIMITS - LEL: NE UEL: NE

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray or fog to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may explode when exposed to extreme heat.

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIAL TO AVOID) Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Combustion may produce



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GLASS CLEANER

Carbon monoxide, carbon dioxide.

CONDITIONS TO AVOID: Storage above 120F. Dropping as cans may burst.  
Open flames and hot surfaces.

SECTION VI HEALTH AND HAZARD INFORMATION

ROUTE (s) OF ENTRY: Inhalation, Skin, Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC) This product contains 2-Butoxyethanol, which has caused liver and kidney damage and hemolytic anemia in test animals.

CARCINOGENICITY: None

SIGNS AND SYMPTOMS OF EXPOSURE: Respiratory irritation. High concentrations may produce headache, dizziness, and nausea. Prolonged or repeated skin contact may lead to drying, irritation and dermatitis possible skin absorption. Eye contact may cause burning and irritation. This product contains 2-Butoxyethanol, which has caused liver and kidney damage and hemolytic anemia in test animals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Move victim to fresh air and restore breathing if necessary. Stay with victim until arrival of emergency medical personnel.

SKIN: Remove contaminated clothing and wash skin with plenty of water. If irritation persists, seek medical attention. Wash clothing before reuse. Eye, immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.

INGESTION: Contact local poison control center or physician.  
IMMEDIATELY!!

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove ignition sources, avoid breathing vapors, avoid skin contact. Soak up with absorbent material.

WASTE DISPOSAL METHOD: Aerosol container. DO NOT puncture or incinerate. When contents are depleted, continue to depress spray button until all gas is expelled.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required. If TLV is exceeded, or

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GLASS CLEANER

for symptoms of overexposure, wear a NIOSH-approved respirator for organic vapors.

VENTILATION                      Local Exhaust: May be necessary  
                                    Mechanical (General): None

PROTECTIVE GLOVES: Wear neoprene or other chemical - resistant gloves

EYE PROTECTION: Wear chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene or other chemical resistant apron or coveralls as needed to prevent repeated or prolonged skin contact.

WORK/HYGIENIC PRACTICES: None

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store below 120F. Prevent damage to containers. This product does not contain any carcinogens (at 0.1% or greater) as defined by IARC, NTP, or OSHA.

OTHER PRECAUTIONS: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

NA- NOT APPLICABLE              NE-NOT ESTABLISHED      UN-UNAVAILABLE  
ND-NOT DETERMINED

The information provided herein was believed to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORAY DRY CHEMICAL EXTINGUISHING AGENT

EPNG MSDS NO: 00804  
PRODUCT ITEM NO: 0062289

DATE ISSUED: 10/29/1992  
LAST REVISED DATE: / /

MANUFACTURER

NAME: ANSUL FIRE PROTECTION  
ADDRESS: ONE STANTON STREET

CITY: MARINETTE,  
STATE: WI ZIP: 54143

EMERGENCY TELEPHONE: (800)424-9300  
24 HOUR TELEPHONE: (715)735-7411

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: SLIGHT

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORAY DRY CHEMICAL EXTINGUISHING AGENT

SECTION I MATERIAL IDENTIFICATION

PRODUCT NAME: FORAY Dry Chemical Extinguishig Agent

| INGREDIENT                                      | SECTION II INGREDIENTS AND HAZARDS |                      | ACUTE TOXICITY DATA |
|---|------------------------------------|----------------------|---------------------|
|   | CAS #                              | ACGIH TLV            |                     |
| MUSCOVITE MICA                                  | 0012001-26-2                       | 20 mppcf*            | No data             |
| Magnesium Aluminum Silicate (attapulgitic clay) | 008031-18-3                        | 10 mg/m <sup>3</sup> | No data             |

\* Million Particles per cubic foot

OTHER INGREDIENTS:

Proprietary Mixtures of ;

|                        |             |                               |
|------------------------|-------------|-------------------------------|
| Monoammonium Phosphate | 007722-76-1 | Oral (rat) LD50<br>5750 mg/kg |
|------------------------|-------------|-------------------------------|

|                  |             |                               |
|------------------|-------------|-------------------------------|
| Ammonium Sulfate | 007783-20-2 | Oral (rat) LD50<br>3000 mg/kg |
|------------------|-------------|-------------------------------|

|                              |              |         |
|------------------------------|--------------|---------|
| Methyl Hydrogen Polysiloxane | 0063148-57-2 | No data |
| Yellow Pigment               | 0005466-75-7 | No data |

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Slight

APPEARANCE AND ODOR: Yellow colored powder, no characteristic odor

REACTIVITY IN WATER: Unreactive

SECTION IV FIRE AND EXPLOSION DATA

NONE This is an extinguishing agent

SECTION V REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (Materials to Avoid): Strong alkalis, Mg, Oxidizers that can release chlorine per NFPA 43A

HAZARDOUS DECOMPOSITION PRODUCTS:

NH<sub>3</sub> and/or POx may be evolved

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE: OSHA nuisance dust limit of 15 mg/m<sup>3</sup> or ACGIH

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORAY DRY CHEMICAL EXTINGUISHING AGENT

nuisance dust value of 10 mg/m<sup>3</sup> for the 8 -hr time weighted average.

ROUTES OF ENTRY

EYE CONTACT: Mildly irritating for a short period of time

SKIN CONTACT: May be mildly irritating

INHALATION: Treat as a mineral dust. Irritant to the respiratory tract.

INGESTION: Not an expected route of entry

SIGNS AND SYMPTOMS:

ACUTE OVEREXPOSURE: Transient cough, shortness of breath.

CHRONIC OVEREXPOSURE: Chronic fibrosis of the lung, pneumoconiosis

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Reactive airway

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL:

NTP - NO

IARC - NO

OSHA - NO

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Sweep up

WASTE DISPOSAL METHOD:

Dispose of in compliance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Dust mask where dustiness is prevalent, or TLV exceeded. Mechanical filter respirator if exposure is prolonged.

VENTILATION:

LOCAL - Discretionary

MECHANICAL - Recommended

EYE PROTECTION:

Recommended as mechanical barrier for prolonged exposure.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

If irritation occurs, long sleeves and impervious gloves should be worn.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Should be stored in original container or Ansul fire extinguisher.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORAY DRY CHEMICAL EXTINGUISHING AGENT

DO NOT mix agents

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON SPRAY GRAY PRIMER

EPNG MSDS NO: 00079  
PRODUCT ITEM NO: 0046646

DATE ISSUED: 06/30/1986  
LAST REVISED DATE: / /

MANUFACTURER

NAME: BORDEN, IN  
ADDRESS:

180 E. BROAD STREET  
CITY: COLUMBUS  
STATE: OH ZIP: 43215

EMERGENCY TELEPHONE: (614) 457-5200  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 2 FIRE: 4 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: HEAVIER

EVAPORATION RATE: FAST  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: SLIGHT

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: Y LIQUID: Y GAS: SOLID:

REMARKS:

THIS MATERIAL IS A HEALTH HAZARD AND/OR A PHYSICAL HAZARD.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON SPRAY GRAY PRIMER

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

|                           |        |
|---------------------------|--------|
| 67-64-1 Acetone           | 33%    |
| 74-98-6 Propane           | 16-17% |
| 78-83-1 Isobutyl Alcohol  | 1-2%   |
| 108-88-3 Toluene          | 23-27  |
| 8032-32-4 V.M.&P. Naphtha | 4-6    |

SECTION III PHYSICAL DATA

Vapor Density: Heavier than air.  
Solubility in Water: slight  
Spec. Gravity: Lighter than water  
Evap. Rate: Faster than butyl acetate

SECTION IV FIRE AND EXPLOSION DATA

N/A

SECTION V REACTIVITY DATA

Stable

Major Decomposition Products: CO, CO<sub>2</sub>

Hazardous Polymerization: Will not occur

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

Engineering Controls: The following exposure control techniques may be used to effectively minimize employee exposure: Local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

SECTION VI HEALTH AND HAZARD INFORMATION

Ingestion and Inhalation: May be harmful.

Skin and Eyes: Causes irritation.

Ingestion: If swallowed, do not induce vomiting. Call a physician immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen, call a physician.

Skin contact: Flush skin with water. If irritation persists, call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON SPRAY GRAY PRIMER

least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Eliminate all ignition sources.

Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

Dispose of according to Local, State and Federal Requirements. Empty container may contain explosive vapors. Do not cut, puncture or weld on or nearby. Incineration will cause container to burst violently.

SECTION VIII SPECIAL PROTECTION INFORMATION

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA 29 CFR 1910.134 or other applicable standards or guidelines. Use goggles if contact is likely.

Wear impervious gloves as required to prevent skin contact.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON INTERIOR/EXT GLOSSY WHITE PAINT ENAMEL

EPNG MSDS NO: 00061  
PRODUCT ITEM NO: 0046649

DATE ISSUED: 09/10/1981  
LAST REVISED DATE: 05/01/1972

MANUFACTURER

NAME: BORDEN INC.,  
ADDRESS: KRYLON DEPARTMENT  
FORD & WASHNGTN STS  
CITY: NORRISTOWN  
STATE: PA ZIP: 19404

EMERGENCY TELEPHONE: (215) 278-2400  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA EVAPORATION RATE: >1  
MELTING POINT: NA VAPOR PRESSURE: NA  
VISCOSITY: NA SPECIFIC GRAVITY: 0.100  
VAPOR DENSITY: >1 WATER SOLUBILITY: SLIGHT

FLASH POINT : NA METHOD: NA  
AUTOIGNITION : NA LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: Y LIQUID: GAS: SOLID:

REMARKS:

CONTAINER IS UNDER INTERNAL PRESSURE OF ABOUT 60 POUNDS PER SQUARE  
INCH GAUGE AT 70F.

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON INTERIOR/EXT GLOSSY WHITE PAINT ENAMEL

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

|  |            |
|--|------------|
| Pigments: Vary with color                | 0.4-8%     |
| Vehicle: Cellulose Nitrate, Oil-free     |            |
| Alcohol Derived Alkyd, Dioctyl Phthalate | 9-16       |
| Solvents: Acetone                        | 25-37 1000 |
| Propane                                  | 15-16 1000 |
| Methyl isobutyl ketone                   | 10-20 100  |
| Toluene                                  | 5-15 100   |
| Cellosolve acetate                       | 3-6 100    |
| Methyl ethyl ketone                      | 0-5 200    |
| Butanol                                  | 0-3 50     |
| Methylene chloride                       | 0-10 200   |

SECTION III PHYSICAL DATA

Specific Gravity: <1  
% Volatile: 80-90  
Vapor Density: >1  
Evaporation Rate: >1  
Solubility in Water: Slight  
Container is under internal pressure of about 60 pounds per square inch gauge at 70F.

SECTION IV FIRE AND EXPLOSION DATA

If sprayed directly at a nearby open flame, spray may catch fire and burn like a blowtorch. This is not dangerous to the unit; release spray button to extinguish flame.  
If the spray mist or the vapors evaporating from a deposited film collect in a confined or closed area or in a pit or depression or box, and if the concentration is 1.5 grams or more of can content per cubic foot of air content of one can or more per 250 cubic feet of air it may have reached the lower explosive limit and could be ignited by a flame or spark.  
If can is in a fire it may burst with violence due to the heat, and this will release its flammable content.

SECTION V REACTIVITY DATA

Stability: Stable  
Hazardous Decomposition Products: Burning spray may produce toxic and irritating compounds.  
Hazardous Polymerization: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KRYLON INTERIOR/EXT GLOSSY WHITE PAINT ENAMEL

Effects of Overexposure: Dizzy, confusion, weakness

Emergency and First Aid Procedures: Get fresh air. If sprayed in eyes, wash with water 15 minutes.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Remove sources of ignition.

Soak up with absorbent material.

Ventilate area.

When dry, discard as non-dangerous trash to be buried or burned.

SECTION VIII SPECIAL PROTECTION INFORMATION

Ventilate adequately.

Requirements vary with rate of product use. Supplement natural ventilation as necessary to keep area below threshold limit value of each ingredient.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Do not store at temperatures over 120F. Contents under pressure and exposure to high temperature may cause bursting. Avoid radiators, stoves, direct sunlight, or other heat source.

Incineration will cause container to burst violently. Avoid incineration or use only a strong, closed incinerator. Avoid puncturing as content will escape rapidly. If spray is burned do not breath irritating or toxic fumes.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

EPNG MSDS NO: 00699  
PRODUCT ITEM NO: 0047243

DATE ISSUED: / /  
LAST REVISED DATE: 10/21/1985

MANUFACTURER

NAME: GENERAL ELECTRIC  
ADDRESS:

SILICONE PROD. DIV.  
CITY: WATERFORD, EMERGENCY TELEPHONE: (518)237-3330  
STATE: NY ZIP: 12188 24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: TRADE SECRET: N  
MOLECULAR WEIGHT: TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

SECTION I MATERIAL IDENTIFICATION

MANUFACTURED BY:

General Electric Co., Silicone Products Division, Waterford, NY 12188

EMERGENCY PHONE (24 HOURS): 518-237-3330

REVISED: 10/21/1985

PREPARER: DA Polsinelli

PRODUCT IDENTIFICATION: IS802

CHEMICAL NAME: Construction Sealant

CHEMICAL FAMILY: Silicone Sealant

FORMULA: Mixture

SECTION II INGREDIENTS AND HAZARDS

| PRODUCT COMPOSITION    | APPROX<br>% | ACGHIH<br>TLV | OSHA<br>PEL | UNITS | CAS REG<br>NO |
|------------------------|-------------|---------------|-------------|-------|---------------|
| A Hazardous            |             |               |             |       |               |
| Methyltriacetoxysilane | (05%)       | 10            | --          | PPM   | 4253-34-3*    |
| B. Non-Hazardous       |             |               |             |       |               |
| **Product Information  | NA          | NA            | NA          | NA    | NA            |

SECTION III PHYSICAL DATA

BOILING POINT NA (F) NA (C)

PHYSICAL STATE: Solid

VAPOR PRESSURE (20 C): UNKN MM HG

ODOR: Vinegar

VAPOR DENSITY (AIR=1): UNKN

COLOR: Translucent

SOLUBILITY IN WATER (20C): Insoluble.

PH: NA

SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): UNKN

ACIDITY/ALKALINITY UNKN meq/g

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

FREEZING POINT: NA (F) NA (C)

DENSITY: 1042.5 kg/m3

MELTING POINT: NA (F) NA (C)

SPECIFIED GRAVITY (WATER=1): 1.04

% VOLATILE BY VOLUME < 5

EVAPORATION RATE (BUTYL ACETATE=1): <1

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: > 400 (F) >204 (C) By Toc.

IGNITION TEMP: Unkn (F) Unkn (C)

FLAMMABLE LIMITS

LOWER: NA UPPER: NA

EXTINGUISHING MEDIA:

All standard firefighting media. Dry Chemical.

SPECIAL FIREFIGHTING PROCEDURES:

None known.

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide,  
Silicon Dioxide, Acetic Acid.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

CONDITIONS TO AVOID: None Known.

SECTION VI HEALTH AND HAZARD INFORMATION

ACUTE SIGNS/EFFECTS OF OVEREXPOSURE

INGESTION:

May cause gastric distress.

SKIN CONTACT:

Uncured product contact will irritate lips, gums and tongue.  
Uncured product contact may irritate skin

INHALATION:

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

Causes mild respiratory irritation.

EYE CONTACT:

Uncured product contact irritates eyes.

MEDICAL CONDITIONS AGGRAVATED:

Respiratory

OTHER:

Acetic acid released during curing.

CHRONIC EFFECTS OF OVEREXPOSURE:

None known.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION:

None known.

SKIN:

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.

INHALATION: (nothing on msds sheet for inhalation)

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

NOTE TO PHYSICIAN:

None known.

TOXICITY:

Methyltriacetoxysilane

ACUTE ORAL LD50 2060 (rat) mg/kg

ACUTE DERMAL LD 50: None Found mg/kg

ACUTE INHALATION LC50: None Found

OTHER:

None.

AMES TEST:

Unknown.

PRINCIPAL ROUTES OF EXPOSURE:

Eyes, Inhalation.

PRODUCTS INGREDIENTS:

None known.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

Wear proper protective equipment as specified in the protective equipment section.

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Use in a well ventilated area.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

Use only in well ventilated area. Mechanical ventilation.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes.

CAUTION!

Wearers of contact lenses MUST NOT handle lenses until all sealant has been cleaned from fingertips, residual silicone will transfer to lenses and cause severe eye irritation.

Product releases acetic acid during application and curing. Use mechanical ventilation to stay below TLV of 10 PPM acetic acid.

Uncured product contact irritates eyes.

Uncured product contact may irritate skin.

Use in a well ventilated area to prevent irritation by vapors.

ENGINEERING CONTROLS:

Eyewash stations.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CONSTRUCTION SEALANT (IS802)

Use in a well ventilated area.

SHIPPING AND REGULATORY CLASSIFICATION DATA

DOT SHIPPING NAME: None

DOT HAZARD CLASS: None

DOT LABEL(S): None

EPA HAZARD WASTE: None

OSHA HAZARD CLASS: Eye irritant

CPSC CLASSIFICATION: Eye irritant

TRANSPORTATION CLASS: IMO None

KID (OCTI) None

ADR (ECE) None

RAR (TATA0) None

UN/NA NUMBER: None

NFPA/MMIS CLASSIFICATION:

Flammability=0

Reactivity= 0

Health=2

ADDITIONAL INFORMATION:

These data are offered in good faith at typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIG JOHN BOWL CLEANER

EPNG MSDS NO: 00846  
PRODUCT ITEM NO: 0047253

DATE ISSUED: 12/24/1985  
LAST REVISED DATE: / /

MANUFACTURER

NAME: CHEMIFAX  
ADDRESS: 6423 BANDINI BLVD.

CITY: COMMERCE,  
STATE: CA ZIP: 90040

EMERGENCY TELEPHONE: (213) 726-9332  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: APPROX 212  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: APPROX AS WATER  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 1.044  
WATER SOLUBILITY: COMPLETE

FLASH POINT : NON COMBUSTIBLE  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIG JOHN BOWL CLEANER

SECTION I MATERIAL IDENTIFICATION

COMMON NAME: S.W. BIG JOHN BOWL CLEANER

CHEMICAL NAME: COMPOUNDED PRODUCT

CHEMICAL FAMILY: COMPOUNDED PRODUCT

FORMULA: COMPOUNDED PRODUCT

SECTION II INGREDIENTS AND HAZARDS

| CHEMICAL          | %   | ACGIH-TLV | CAS #       |
|-------------------|-----|-----------|-------------|
| HYDROCHLORIC ACID | <10 | 5 ppm     | 007647-01-0 |

SECTION III PHYSICAL DATA

BOILING POINT (F): APPROX 212

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.044

VAPOR PRESSURE (mm Hg): NOT APPLICABLE

VAPOR DENSITY (Air=1): NOT APPLICABLE

% VOLATILE BY VOLUME: NOT APPLICABLE

EVAPORATION RATE: APPROX SAME AS WATER

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: Liquid, blue color, cherry odor

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (Method Used): Non Combustible

EXTINGUISHING MEDIA: NA

SPECIAL FIRE FIGHTING PROCEDURES: NA

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Hydrochloric acid will attack most metals with the evolution of potentially explosive hydrogen.

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Will attack metals

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen Chloride Gas.

INCOMPATIBILITY (Materials to Avoid): Will attack most metals

SECTION VI HEALTH AND HAZARD INFORMATION

ACUTE HEALTH EFFECTS:

Irritation on contact with eyes, skin, also to mucous membranes if ingested may cause severe burns.

CHRONIC HEALTH EFFECTS:

No long term human studies have been reported. There are no reported chronic effects.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIG JOHN BOWL CLEANER

ROUTES OF ENTRY:

EYE, SKIN, ORAL, AND INHALATION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Irritation and burns to eyes, skin, mucous membranes.

EMERGENCY AND FIRST AID PROCEDURES:

EYE: Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, obtain medical attention.

SKIN:

Wash with water. Remove contaminated clothing. If irritation is evident obtain medical attention.

INGESTION:

Immediately give large quantities of water, milk, milk of magnesia. Call physician immediately.

INHALATION:

Remove to fresh air. Call physician

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Neutralize with sodium carbonate. Rinse area with large quantities of water.

WASTE DISPOSAL METHOD:

Dispose of in an approved hazardous waste facility according to Federal, State and Local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

None required under normal use

VENTILATION:

Local Exhaust

PROTECTIVE GLOVES:

Rubber or Meoprene

EYE PROTECTION:

Goggles

OTHER PROTECTIVE EQUIPMENT:

Not necessary when handled properly

OTHER ENGINEERING CONTROLS:

DO NOT mix with other chemicals

WORK PRACTICES:

Avoid contact with skin and eyes, do not ingest

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIG JOHN BOWL CLEANER

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

DO NOT store in metal containers

Keep out of reach of children

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HAND CLEANER

EPNG MSDS NO: 00172  
PRODUCT ITEM NO: 0050592

DATE ISSUED: / /  
LAST REVISED DATE: 05/01/1972

MANUFACTURER

NAME: ZEP MANUFACTURING COMPANY  
ADDRESS:

P O BOX 2015  
CITY: ATLANTA  
STATE: GA ZIP: 30301  
EMERGENCY TELEPHONE: (404)352-1680  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: PROPRIETARY  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA  
EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.920  
WATER SOLUBILITY: EMULSIFIES

FLASH POINT : 160  
AUTOIGNITION : NA  
METHOD: TCC  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: Y LIQUID: GAS: SOLID:

REMARKS:

YELLOW GEL WITH A FRUIT-LIKE ODOR.

PRODUCT SYNONYMS

ZEP-O-KREME

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HAND CLEANER

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

Solvents - Aliphatic Hydrocarbons 39% 200 ppm (TLV)

Low volatility

Other ingredients not classifiable or considered hazardous.

SECTION III PHYSICAL DATA

Spec. Gravity: .92

Sol. in Water: Emulsifies

% Vol.: 83.5

Appearance and Odor: Yellow gel with a fruit-like odor.

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: 160/TCC

Extinguishing Media: Gel structure of product inhibits combustibility of solvent. Flash point of solvent 135F. Product will not flash unless heated to breaking point of the emulsion above 212F.

SECTION V REACTIVITY DATA

Stable

Incompatibility: Strong oxidizers.

Hazardous Decomposition Products: CO<sub>2</sub>.

SECTION VI HEALTH AND HAZARD INFORMATION

Threshold Limit Value: 200 ppm for solvent. No solvent vapors are given off by product.

Effects of Overexposure: Causes irritation to eyes on contact.

May dry skin after prolonged use.

Emergency and First Aid Procedures: Flush eyes with water for 15 minutes and seek medical attention. Discontinue use if skin rash or irritation develops.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Wipe or mop up spilled material. Thoroughly rinse spill area.

Normal disposal system.

SECTION VIII SPECIAL PROTECTION INFORMATION

N/A

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Store in a cool, dry area.

Keep out of reach of children. Avoid contact with eyes.



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KEMP ITEM NO. 11204

EPNG MSDS NO: 01547  
PRODUCT ITEM NO: 0055879

DATE ISSUED: 06/01/1986  
LAST REVISED DATE: / /

MANUFACTURER

NAME: C.M. KEMP MANUFACTURING  
ADDRESS:

CITY: GLEN BRUNIE,  
STATE: MD ZIP: 21061

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: (301) 761-5100

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 56 TO 58

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 3.700  
WATER SOLUBILITY: NA

FLASH POINT : NA  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KEMP ITEM NO. 11204

SECTION I MATERIAL IDENTIFICATION

KEMP ITEM NO. 11205 - 50# Drum

TRADE NAME: Type K11 Vapoilsorb

CHEMICAL NAME AND FAMILY: Activated Bauxite

CHEMICAL NOTATION:  $\text{Al}_2\text{O}_3 \cdot 0.3\text{H}_2\text{O}$

SECTION II INGREDIENTS AND HAZARDS

Product is not a hazardous material under current department of labor definition.

SECTION III PHYSICAL DATA

PHYSICAL PROPERTIES:

CHEMICAL ANALYSIS

TYPICAL RANGES

|                         |             |
|-------------------------|-------------|
| $\text{Al}_2\text{O}_3$ | 75 to 82%   |
| $\text{SiO}_2$          | 10 to 14%   |
| $\text{TiO}_2$          | 3.5 to 4.5% |
| $\text{Fe}_2\text{O}_3$ | 2 to 3%     |

BULK DENSITY, POUNDS PER CUBIC FOOT: 56 to 58

TRUE DENSITY, GRAMS PER CUBIC CENTIMETER: 3.2

SPECIFIC HEAT, BTU PER POUND PER F: 0.19

In manufacture the iron content of the finished desiccant, expressed as  $\text{Fe}_2\text{O}_3$  is maintained at a level under 3% maximum.

| CHEMICAL                       | OSHA<br>PEL         | ACGIH<br>TLV        | OTHER<br>INFORMATION |
|--------------------------------|---------------------|---------------------|----------------------|
| ALUMINUM OXIDE<br>(ALUMINA)    |                     |                     |                      |
| Respirable Dust                | 5mg/m <sup>3</sup>  | 5mg/m <sup>3</sup>  | Major Ingredient     |
| Total Dust                     | 15mg/m <sup>3</sup> | 10mg/m <sup>3</sup> |                      |
| IRON OXIDE                     |                     |                     |                      |
| Respirable Dust                | 5mg/m <sup>3</sup>  | 5mg/m <sup>3</sup>  | Minor Ingredient     |
| Total Dust                     | 15mg/m <sup>3</sup> | 10mg/m <sup>3</sup> |                      |
| TITANIUM DIOXIDE               |                     |                     |                      |
| Respirable Dust                | 5mg/m <sup>3</sup>  | 5mg/m <sup>3</sup>  | Minor Ingredient     |
| Total Dust                     | 15mg/m <sup>3</sup> | 10mg/m <sup>3</sup> |                      |
| SILICON DIOXIDE<br>(AMORPHOUS) |                     |                     |                      |
| Respirable Dust                | 5mg/m <sup>3</sup>  | 5mg/m <sup>3</sup>  | Minor Ingredient     |

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KEMP ITEM NO. 11204

Total Dust 15mg/m3 10mg/m3

RESPIRABLE QUARTS  
(SILICA) 10/ (1+2) 0.1mg/m3 1%  
(Proposed)

SECTION IV FIRE AND EXPLOSION DATA

NON-FLAMMABLE

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

PRECAUTIONS IN USE:

Users should avoid prolonged breathing of the dust or contact of dust with the skin. If dusty conditions prevail, wear a properly fitted NIOSH-approved dust respirator. The drying action can cause irritation of the mucous membranes of the nose and throat and irritation of the skin. If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight fitting wristlets.

"Nuisance dust" Limits of 10 mg/m3 of air must be observed as a maximum. The Threshold limit value (TLV) of 5 mg/m3 proposed by the American Conference of Governmental Industrial Hygienists (ACGIH) is recommended. Wear goggles if dust causes eye discomfort.

FIRST AID:

Wash dust from skin or eyes with water. If irritation persists, see a physician.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Sweep or vacuum up.

DISPOSAL:

Landfill in accordance with State and Local regulations. Cover promptly to avoid blowing of dust.

SECTION VIII SPECIAL PROTECTION INFORMATION

N/A

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

STORAGE AND TRANSPORTATION: Keep tightly sealed to protect quality.

DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS BASED UPON DATA CONSIDERED TO BE

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KEMP ITEM NO. 11204

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EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SIMPLE GREEN CONCENTRATED IND. STRENGTH CLEANSER & DEGREASER

EPNG MSDS NO: 00127  
PRODUCT ITEM NO: 0058376

DATE ISSUED: 11/21/1988  
LAST REVISED DATE: / /

MANUFACTURER

NAME: SUNSHINE MAKERS

ADDRESS:

15922 PACIFIC HWY

CITY: HUNTINGTON HARBOR

STATE: CA ZIP:

EMERGENCY TELEPHONE: (213)592-2844

24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: 0 FIRE: 0 REACTIVITY: 0  
CERCLA HEALTH: 0 FIRE: 0 REACTIVITY: 0 PERSISTENCE: 0

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: 100

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 97C

MELTING POINT: -4

VISCOSITY: NA

VAPOR DENSITY: 1.3

EVAPORATION RATE: NA

VAPOR PRESSURE: 30 MM HG

SPECIFIC GRAVITY: 1.040

WATER SOLUBILITY: INFINITELY MISC

FLASH POINT : NA

AUTOIGNITION : NA

METHOD: NA

LEL: NA

UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

TRANSPARENT GREEN LIQUID AT 20C; SASSAFRAS ODOR

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SIMPLE GREEN CONCENTRATED IND. STRENGTH CLEANSER & DEGREASER

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

Substance: Glycol Ether

SECTION III PHYSICAL DATA

Boiling Point: 97C  
Sol. in Water: Infinitely Miscible  
Melting Point: -4  
Vapor Density: 1.3  
Spec. Gravity: 1.04  
Vapor Pressure: 30 mm Hg  
Appearance and Odor: Transparent green liquid at 20C; sassafras odor.

SECTION IV FIRE AND EXPLOSION DATA

Extinguishing Media: Water can be used without complication.

SECTION V REACTIVITY DATA

N/A

SECTION VI HEALTH AND HAZARD INFORMATION

Simple Green is an eye irritant. It is not irritating to skin or mucous membranes.  
Repeated daily application to the skin without washing, may lead to temporary skin irritation.  
Ingestion: Drink water. If stomach upset occurs consult a physician.  
Skin: Wash off with water.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Vacuum or mop up spill.  
Make certain seals are firmly closed. Store upright in organized manner.

SECTION VIII SPECIAL PROTECTION INFORMATION

Local exhaust acceptable.  
Wear chemical splash goggles or faceshield.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO N-5000

EPNG MSDS NO: 00737  
PRODUCT ITEM NO: 0062351

DATE ISSUED: / /  
LAST REVISED DATE: 11/04/1985

MANUFACTURER

NAME: FEL-PRO INCORPORATED  
ADDRESS: 7450 N MCCORMICK  
BLVD  
CITY: SKOKIE,  
STATE: IL ZIP: 60076

EMERGENCY TELEPHONE: (312) 674-7700  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 500F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NIL  
SPECIFIC GRAVITY: 1.200  
WATER SOLUBILITY: INSOLUBLE

FLASH POINT : 440  
AUTOIGNITION : NA

METHOD: ASTM D92-57  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID: Y

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO N-5000

SECTION I MATERIAL IDENTIFICATION

CHEMICAL NAME: Not Applicable--Mixture

CHEMICAL FAMILY: Not applicable--Mixture

TRADE NAME AND SYNONYMS: Fel-Pro N-5000

FORMULA: Not Applicable--Mixture

SECTION II INGREDIENTS AND HAZARDS

This material is composed of calcium flouride and graphite flakes suspended in a mineral oil base, and contains no ingredients considered hazardous per U.S. Department of Labor O.S.H.A. criteria re: 29 CFR 1910.1200 Hazard Communication Law.

SECTION III PHYSICAL DATA

BOILING POINT (F): approx 500F

SPECIFIC GRAVITY (H2O=1): 1.2

VAPOR PRESSURE ( MM HG): Nil

PERCENT VOLATILE BY VOLUME (%): 0%

VAPOR DENSITY (AIR=1): Not Applicable

EVAPORATION RATE ( =1): Not Applicable

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Gray paste, slight mineral oil odor.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): 440 F, ASTM D92-57

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Use water fog, dry chemical, foam, CO2

SPECIAL FIRE FIGHTING PROCEDURES:

Use above extinguishing media. DO NOT direct water directly into fire. Use eye protection. Wear self-contained breathing apparatus when fire fighting in confined areas.

SECTION V REACTIVITY DATA

STABILITY: Stable



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO N-5000

CONDITIONS TO AVOID: None

INCOMPATABILITY (MATERIALS TO AVOID): Strong mineral acids and oxidizers (i.e., nitric acid, peroxides, permanganates, etc)

HAZARDOUS DECOMPOSITION PRODUCTS: Phrolysis yields CO, CO<sub>2</sub>, HF and incompletely burned hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

SECTION VI HEALTH AND HAZARD INFORMATION

THRESHOLD LIMIT VALUE:

None Established.

EFFECTS OF OVEREXPOSURE:

None expected. Possible redness or mild transient irritation of skin or eyes after prolonged or repeated contact, especially in sensitive individuals.

EMERGENCY AND FIRST AID PROCEDURES

In eyes: Flush with tepid water 15 minutes, holding eyelids apart. Consult physician.

On skin: wash with soap & water. If irritation occurs, consult physician.

Ingestion: Consult physician, treat sumptomatically.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wipe up with rags or absorbent material. Complete clean-up using detergent and water or chlorinated solvent cleaner or high flash point solvent cleaner with adequate ventilation.

WASTE DISPOSAL METHOD:

Use controlled incineration or bury in a posted toxic substance landfill in accordance with Federal, State and Local Regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):

None required in normal use.

VENTILATION

LOCAL EXHAUST: Recommended (50 f.p.m.)

MECHANICAL (GENERAL): Acceptable (50 f.p.m.)

SPECIAL: None

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FEL-PRO N-5000

OTHER: None.

PROTECTIVE GLOVES: Not required.

EYE PROTECTION: Sufficient to prevent contact.

OTHER PROTECTIVE EQUIPMENT: None required. May use gloves, coveralls or apron to reduce contact and aid in maintaining cleanliness.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT expose to high heat, open flames, strong oxidizers.

Use normal storage and handling.

OTHER PRECAUTIONS:

Contains hydrocarbons-DO NOT USE in oxygen service. Keep out of reach of children.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLIMAX #650

EPNG MSDS NO: 00642  
PRODUCT ITEM NO: 0058718

DATE ISSUED: 06/17/1990  
LAST REVISED DATE: / /

MANUFACTURER

NAME: CLIMAX LUBRICANTS & EQUIP  
ADDRESS: 7915 E. ELM

CITY: HOUSTON,  
STATE: TX ZIP: 77012

EMERGENCY TELEPHONE: (713)485-3181  
24 HOUR TELEPHONE: (713)923-2626

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA:  
MOLECULAR WEIGHT:

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: EVAPORATION RATE:  
MELTING POINT: VAPOR PRESSURE:  
VISCOSITY: SPECIFIC GRAVITY: 0.000  
VAPOR DENSITY: WATER SOLUBILITY:

FLASH POINT : METHOD:  
AUTOIGNITION : LEL: UEL:

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLIMAX #650

SECTION I MATERIAL IDENTIFICATION

IDENTITY (AS USED ON LABEL): Climax #650

MANUFACTURER'S NAME: Climax Lubricants & Equipment Co.  
7915 E. Elm  
Houston, Texas 77012  
PHONE (EMERGENCY): 713-485-3181  
INFORMATION 713-923-2626

DATE PREPARED: June 17, 1990

PREPARER: Dennis M. Frauenberger

SECTION II INGREDIENTS AND HAZARDS

| HAZARDOUS COMPONENT | OSHA PEL       | ACGIH TLV | OTHER LIMITS               | RECOMMENDATIONS (OPTIONAL) |
|---------------------|----------------|-----------|----------------------------|----------------------------|
| Castor Oil          | None Hazardous |           | Non Petroleum Hydro Carbon |                            |

SECTION III PHYSICAL DATA

BOILING POINT: +400 F  
SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.10  
VAPOR PRESSURE (MM HG): N/A  
MELTING POINT: None  
VAPOR DENSITY (AIR=1): N/A  
EVAPORATION RATE (Butyle Acetate=1): N/A  
SOLUBILITY IN WATER: None  
APPEARANCE AND ODOR: Odorless.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): +500 F.

EXTINGUISHING MEDIA: Dry Chemical or Water/

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDSS: None.

SECTION V REACTIVITY DATA

STABILITY: Stable

INCOMPATABILITY (MATERIALS TO AVOID):  
Acidic in Nature. Avoid alkaline contact.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None

HAZARDOUS POLYMERIZATION: None

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RIDGE-NIL-CLEAR CUTTING OIL

EPNG MSDS NO: 02089  
PRODUCT ITEM NO: 0059873

DATE ISSUED: / /  
LAST REVISED DATE: / /

MANUFACTURER

NAME: FRANKLIN OIL CORP (OHIO)  
ADDRESS: BOX 46030

CITY: FRANKLIN PARK  
STATE: OH ZIP: 44146

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: NA  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: NA

EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.912  
WATER SOLUBILITY: NA

FLASH POINT : 385 COC  
AUTOIGNITION : NA

METHOD: NA  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RIDGE-NIL-CLEAR CUTTING OIL

SECTION I MATERIAL IDENTIFICATION

N/A

SECTION II INGREDIENTS AND HAZARDS

N/A

SECTION III PHYSICAL DATA

SPECIFIC GRAVITY: .912

PERCENT VOLATILE BY VOL @ 250F: 3% max

APPEARANCE AND ODOR: Color-Transparent Odor Mild

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: COC 385F

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a class B fire

SECTION V REACTIVITY DATA

N/A

SECTION VI HEALTH AND HAZARD INFORMATION

N/A

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Handle as a petroleum oil

WASTE DISPOSAL METHOD: Handle as a petroleum oil

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required

VENTILATION: Not required

PROTECTIVE GLOVES: Not required

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

N/A

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MAGNAFLUX PENETRANT

EPNG MSDS NO: 01458  
PRODUCT ITEM NO: 0063710

DATE ISSUED: / /  
LAST REVISED DATE: 06/03/1987

MANUFACTURER

NAME: MAGNAFLUX CORPORATION  
ADDRESS:

CITY: HOUSTON,  
STATE: TX ZIP: 77253

EMERGENCY TELEPHONE: ( ) -  
24 HOUR TELEPHONE: ( ) -

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 400 F  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 0.97

EVAPORATION RATE: NONE  
VAPOR PRESSURE: BELOW .5@ 100F  
SPECIFIC GRAVITY: 0.000  
WATER SOLUBILITY: NO

FLASH POINT : MINIMUM 200 PENSKEY  
AUTOIGNITION : NA

METHOD: OPEN CUP  
LEL: 1 UEL: 6

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MAGNAFLUX PENETRANT

SECTION I MATERIAL IDENTIFICATION

PRODUCT NAME: MAGNAFLUX PENETRANT

FORMULA: MIXTURE

SECTION II INGREDIENTS AND HAZARDS

HAZARDOUS MIXTURES OF LIQUIDS AND GASES 0/0 TLV

DISTILLATES (PETRO.) CAT. REFORMER RESIDUE, LOW BOILING: >80 NE

CAS #: 068447-31-6

KEROSENE

CAS #: 008008-20-6

\* TLV 100 mg/m3

CARBON DIOXIDE (AEROSOL CANS ONLY)

<5 \*

CAS #: 000124-38-9

\* TLV 5000 ppm

SECTION NOTES

Contains no other ingredient suspected of being hazardous.  
According to information sources given in 29 CFR 1910.1200, OSHA  
HAZARD COMMUNICATION RULE.

SECTION III PHYSICAL DATA

BOILING POINT: 400 F

VAPOR PRESSURE BELOW 0.5 mm @ 100 F

PERCENT VOLATILE BY VOLUME (0/0): None

DENSITY: 0.97

VAPOR DENSITY: OVER 1

EVAPORATION RATE: NONE

SOLUBILITY IN WATER: 0

MATERIAL AT NORMAL CONDITION LIQUID

EXPANSION RATIO (LIQUID TO GAS): NA

PH: NEUTRAL

APPEARANCE AND ODOR: Dark Red Liquid

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: \*SEE NOTES \*

FLASH POINT (Method Used): open cup

FLAMMABILITY LIMITS IN AIR (0/0 by vol.)

LOWER 1%

UPPER 6%

EXTINGUISHING MEDIA: Carbon dioxide foam

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cool with water  
spray

UNUSUAL FIRE AND EXPLOSION HAZARD:



EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MAGNAFLUX PENETRANT

Aerosol cans may burst at temperatures over 130 F.

SECTION NOTES

FLASH POINT: Minimum 200 F Pensky - Martens

SECTION V REACTIVITY DATA

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of Carbon and Nitrogen, if burned.

HAZARD POLYMERIZATION: Will not occur.

SECTION VI HEALTH AND HAZARD INFORMATION

ROUTE(S) OF EXPOSURE: INHALATION, SKIN/EYE CONTACT

EFFECTS OF OVEREXPOSURE

INHALATION: Dizziness, nausea

SKIN CONTACT: Irritation, Dissolves skin oils.

EYE CONTACT: Moderately irritating

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air.

SKIN CONTACT: Use soothing lotions.

EYE CONTACT: Rinse eyes copiously with water.

CARCINOGENICITY: Contains no known or suspected carcinogens listed with OSHA, the International agency for research on cancer monographs, or the National Toxicology Programs Annual Report on Carcinogens.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY EXPOSURE TO PRODUCT:  
NONE.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

MOP UP OR SWEEP UP WITH SWEEPING COMPOUND.

WASTE DISPOSAL METHOD:

Incinerate or dispose of as oily waste. Empty aerosol cans before disposal. Pressurized aerosol cans are not an acceptable waste.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type):

When spraying in unventilated area, wear respirator with filter cartridge.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MAGNAFLUX PENETRANT

VENTILATION: SEE "RESPIRATORY PROTECTION"

PROTECTIVE GLOVES: Nitrile glove if exposure is unavoidable

EYE PROTECTION: SEE "RESPIRATORY PROTECTION"

OTHER PROTECTIVE EQUIPMENT:

Use where ventilation is adequate to carry spray mist away from occupied areas.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS

Avoid frequent or prolonged skin exposure. Do not breathe spray mist. Store away from heat sources. Do not heat aerosol cans above 130 F.

SHIPPING NAME: FOR BULK - Liquid Stain  
FOR AEROSOL - Compressed Gas N.O.S.  
MARKING: FOR BULK - NONE  
FOR AEROSOL - Non-Flammable Gas  
HAZARD CLASS: FOR BULK - NONE  
FOR AEROSOL - Non-Flammable Gas  
IDENTIFICATION: FOR BULK - NONE  
FOR AEROSOL: UN -1956

THIS PRODUCT SAFETY DATA SHEET IS TAKEN FROM DATA FURNISHED TO BIG THREE INDUSTRIES, INC. BY MAGNAFLUX CORPORATION WHICH HAS REPRESENTED TO BIG THREE THAT IT CONFORMS TO HAZARD COMMUNICATIONS STANDARD 29 CFR 1910.1200. BIG THREE PROVIDES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLEANING SOLVENT EPA 2000 (WCI-140)

EPNG MSDS NO: 00605  
PRODUCT ITEM NO: 0057044

DATE ISSUED: 01/12/1989  
LAST REVISED DATE: / /

MANUFACTURER

NAME: WESTERN CHEM. INTERN. INC.  
ADDRESS: 2939 N. 67TH PLACE

CITY: SCOTTSDALE,  
STATE: AZ ZIP: 85251

EMERGENCY TELEPHONE: (602) 990-9487  
24 HOUR TELEPHONE: (602) 990-9487

NFPA HEALTH: FIRE: REACTIVITY:  
CERCLA HEALTH: FIRE: REACTIVITY: PERSISTENCE:

MOLECULAR FORMULA: NA  
MOLECULAR WEIGHT: NA

TRADE SECRET: N  
TIER II REPORTABLE:

BOILING POINT: 350-400  
MELTING POINT: NA  
VISCOSITY: NA  
VAPOR DENSITY: 4.7

EVAPORATION RATE: SLOW  
VAPOR PRESSURE: @ 25C 2  
SPECIFIC GRAVITY: 0.843  
WATER SOLUBILITY: INSOLUBLE

FLASH POINT : 154 F  
AUTOIGNITION : NA

METHOD: OPEN CUP  
LEL: NA UEL: NA

PHYSICAL FORMS PURE: MIX: LIQUID: Y GAS: SOLID:

REMARKS:

PRODUCT SYNONYMS

\*\*\*\* N/A \*\*\*\*

\*\*\*\* N/A \*\*\*\*

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLEANING SOLVENT EPA 2000 (WCI-140)

SECTION I MATERIAL IDENTIFICATION

IDENTITY (As used on label and list): EPA 2000 (WCI-140)

SECTION II INGREDIENTS AND HAZARDS

None of the ingredients in this formulation are found on any lists of hazardous carcinogenic or banned chemical agents or materials generated by them. Agencies investigated include the E.P.A. FDA National Cancer Institute, National Science Foundation, OSHA (Federal California), Consumer Product Safety Commission DOT (Safety Institute and Speical Programs Administration), and the National Toxicology Program. The formulation is a trade secret and complies with 29 CFR XVII-1910.1200 Section (i) "Trade Secrets."

PRODUCT CONTAINS:

D-LIMONENE CAS# 5989-27-5

HIGH PURITY FOOD GRADE MINERAL OIL CAS# 64742-46-7

SECTION III PHYSICAL DATA

BOILING POINT: 350 - 400 F

SPECIFIC GRAVITY (H2O=1): 0.843

VAPOR PRESSURE (MM HG) At 25C: 2

VAPOR DENSITY (Air=1): 4.7

EVAPORATON RATE (Butyl Acetate=1): Slow

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Non viscous liquid; Color from clear to light yellow/orange; Citrus/pine

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (Method Used): 154 F (open cup) 141 F (TCC)

Pensky-Martens

EXTINGUISHING MEDIA: CO2, Dry Powder, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Class B Procedures

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep away form sparks and open flames. Do not use welding torch on or near drum.

SECTION V REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Open flames, welding arcs, or other high temperature sources.

INCOMPATIBILITY (Materials to Avoid): Oxidizing Agents

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI HEALTH AND HAZARD INFORMATION

ROUTES OF ENTRY:

INHALATION: Not in normal use

SKIN: Possible, if prolonged.

EL PASO NATURAL GAS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLEANING SOLVENT EPA 2000 (WCI-140)

INGESTION: Not in normal use

HEALTH HAZARDS (ACUTE & CHRONIC):

INHALATION: Product has low vapor pressure and should not present a hazard under normal working conditions. May cause dryness on skin if gloves not used and irritation to eyes if splashing occurs.

Gastro-intestinal irritation if ingested by accident.

SIGNS AND SYMPTOMS OF EXPOSURE:

None-no adverse health effects

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash with soap and water.

EYES: Flush with water for 5 minutes

INGESTION: Do not induce vomiting; get medical attention.

SECTION VII SPILL, LEAK, AND DISPOSAL PROCEDURES

Allow small spills to evaporate. Larger spills should be collected and disposed of properly in accordance with regulations.

WASTE DISPOSAL METHOD:

EPA 2000 (WCI-140) has a high BTU value (20,000). Waste product can, therefore, be mixed with normal waste oil for burning as industrial fuel.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required

VENTILATION:

LOCAL EXHAUST; Adequate

MECHANICAL (General); adequate

PROTECTIVE GLOVES: Nitrile chemical gloves recommended

EYE PROTECTION: Goggles or safety glasses

WORK/HYGIENIC PRACTICES:

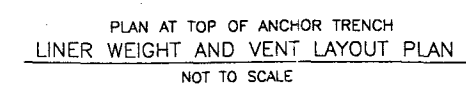
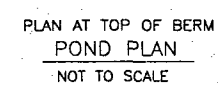
Wash with soap and water before handling food.

SECTION IX SPECIAL PRECAUTIONS AND COMMENTS


Store in cool, dry area away from heat. Keep bung tightly closed when product is not being used.

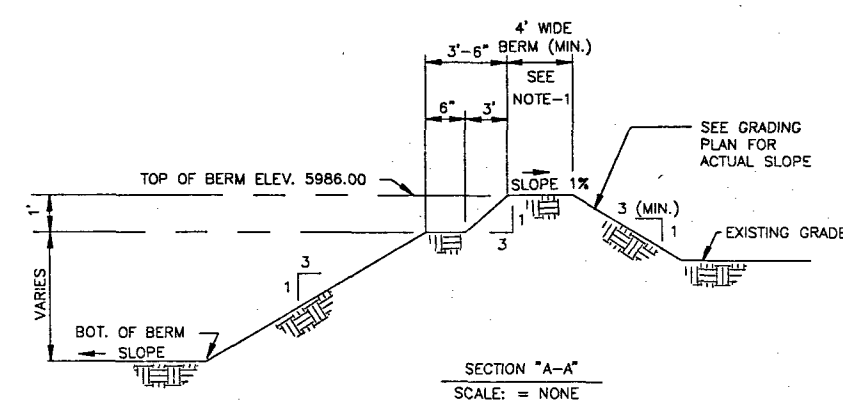
KEEP THIS AND ALL INDUSTRIAL PRODUCTS AWAY FROM CHILDREN



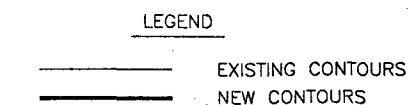


6. ALL CLAMPS FOR BOOTS SHALL BE STAINLESS STEEL CLAMPS

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ENG. RECORD      |     | DATE                 |  |  <b>El Paso</b><br>NATURAL GAS COMPANY |  | EVAPORATION POND |  | POND AND LINER WEIGHT PLANS |  | SCALE: NONE<br>W.O.: L5490/L5491 |  | DWG. NO. STD-1-M337 |  | REV. |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DRAFTING DESIGN  | DK  | 3/28/94              |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | STD-1-M338       |     | SECTIONS AND DETAILS |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |     |                      |  |   |  |                  |  |                             |  |                                  |  |                     |  |      |  |      |  |      |  |      |  |    |  |      |  |



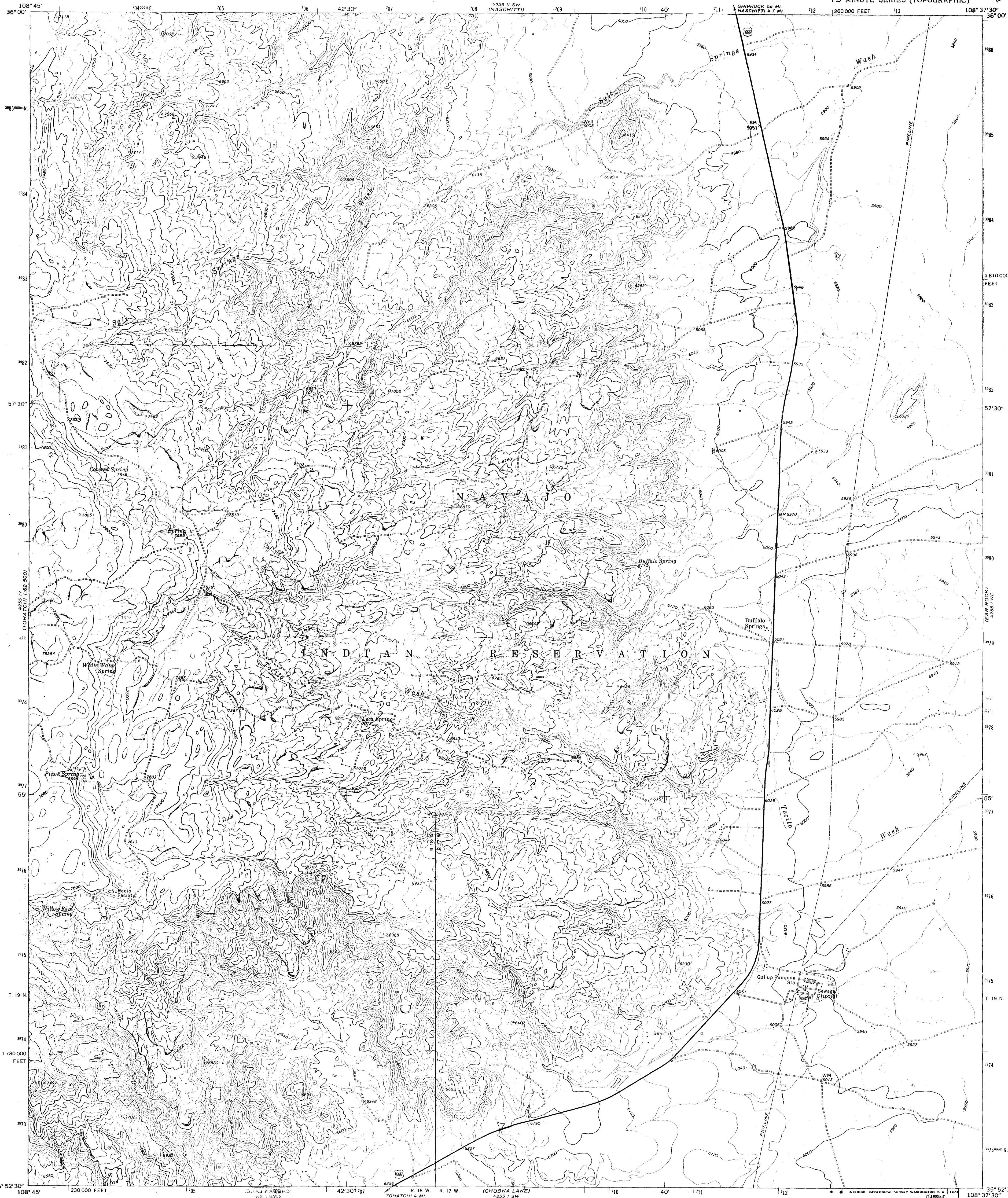
1.) CONTRACTOR SHALL USE EXCESSIVE CUT SOIL FOR  
WIDENING THE BERM OUTSIDE

[illegible]



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

COYOTE CANYON NW QUADRANGLE  
NEW MEXICO—MC KINLEY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial  
photographs taken 1969. Field checked 1970

Projection and 10,000-foot grid ticks: New Mexico  
coordinate system, west zone (Transverse Mercator)  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue. 1927 North American datum

Where omitted, land lines have not been established

UTM GRID AND 1970 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 40 FEET

DOTTED LINES REPRESENT 20-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway,  
hard surface

Secondary highway,  
hard surface

Light-duty road, hard or  
improved surface

Unimproved road

Interstate Route U. S. Route State Route

COYOTE CANYON NW, N. MEX.  
N3552.5—W10837.5/7.5

1970

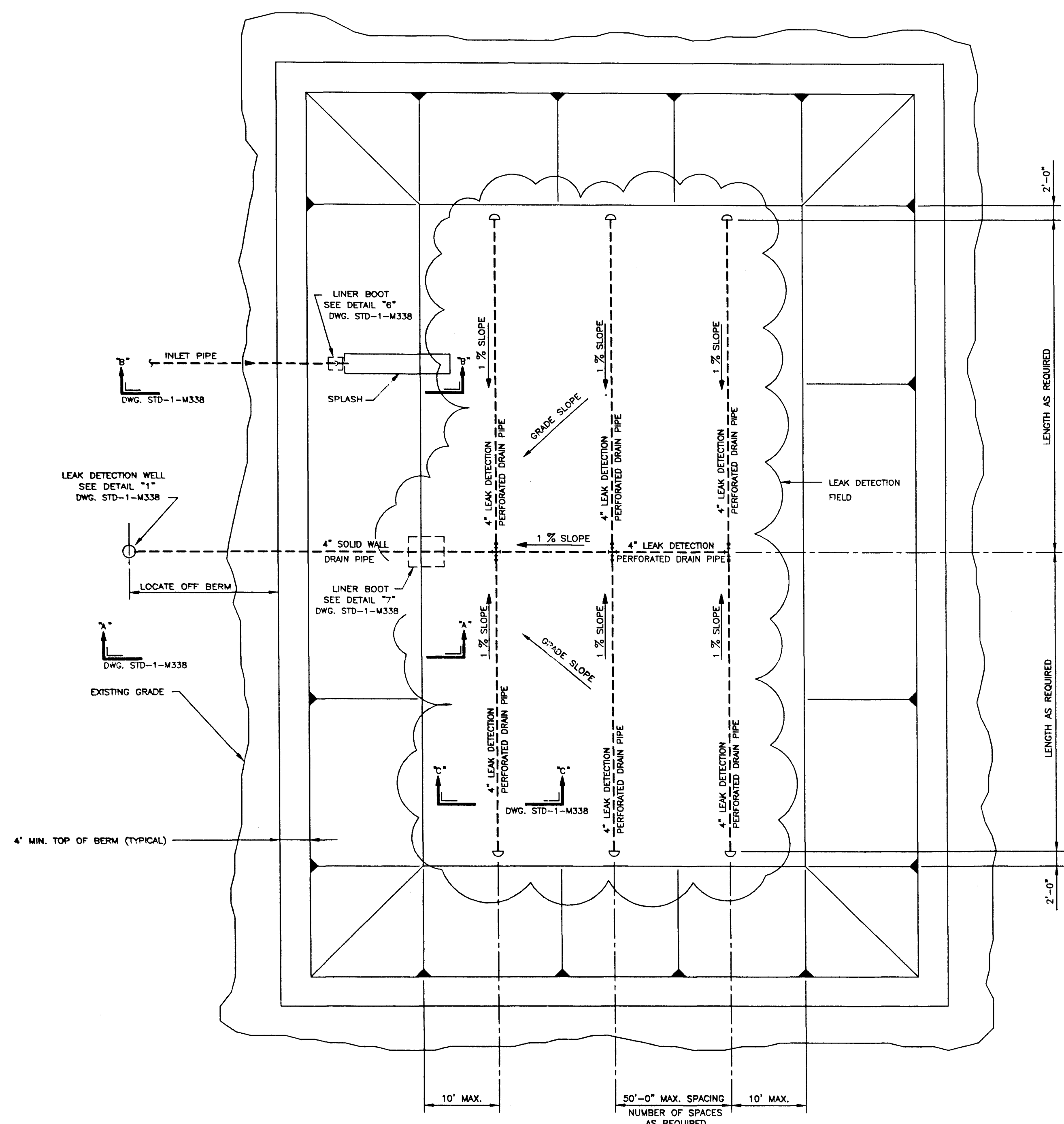
AMS 4255 I NW—SERIES V881



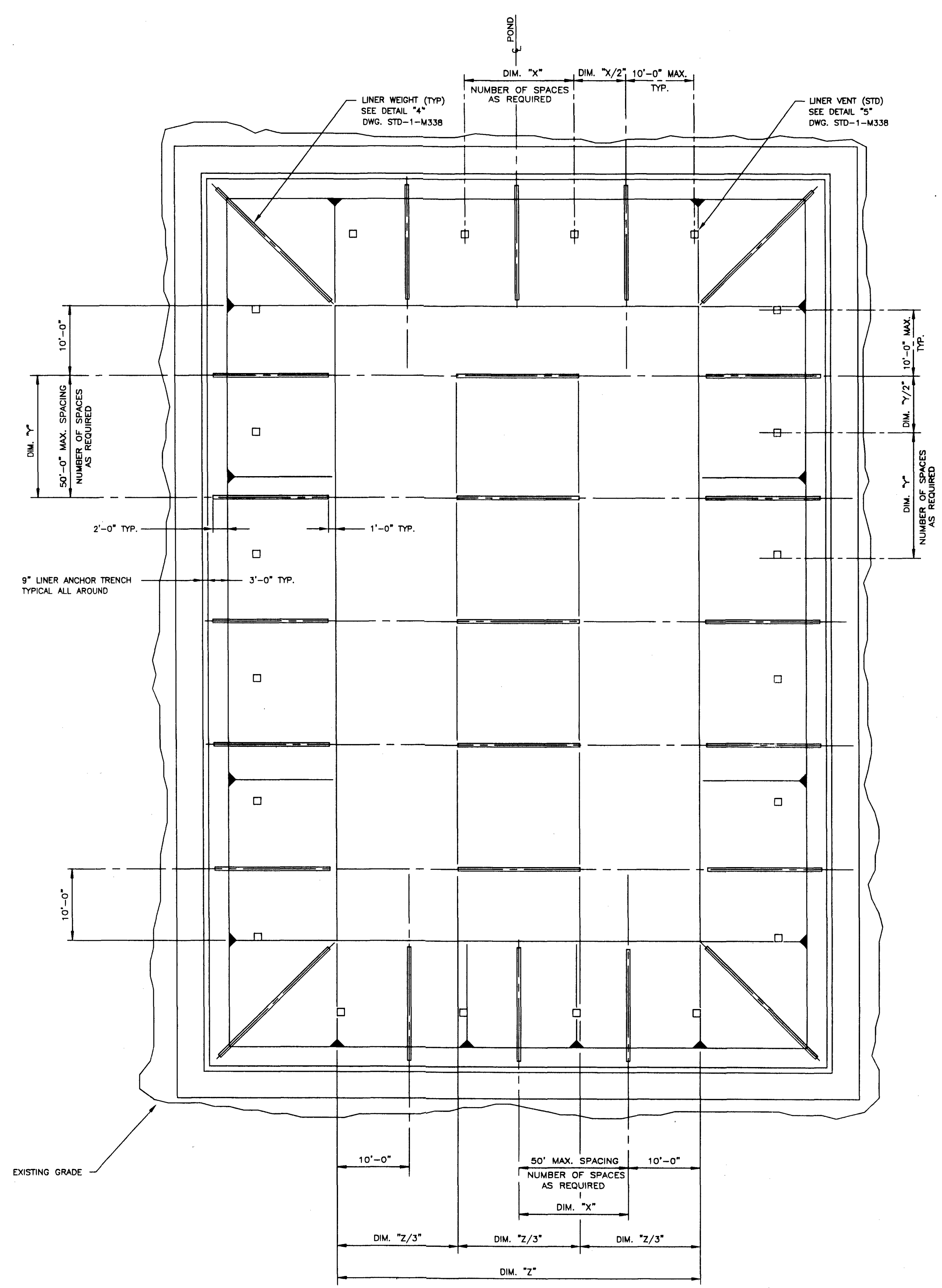








PLAN AT TOP OF BERM  
POND PLAN  
NOT TO SCALE



PLAN AT TOP OF ANCHOR TRENCH  
LINER WEIGHT AND VENT LAYOUT PLAN  
NOT TO SCALE

- NOTES:**
- THE LEAK DETECTION FIELD PIPING WITHIN THE POND UP TO THE LINER BOOT SHALL BE LIMITED TO ONE OF THE FOLLOWING:
    - PVC SEWER AND PIPE FITTINGS PER ASTM D2729
    - PSM- PVC SEWER AND PIPE FITTINGS PER ASTM D3034
    - PVC PLASTIC DRAIN, WASTE AND VENT PIPE FITTINGS PER ASTM D2665
    - PRESSURE RATED PIPE (SDR SERIES) PER STM D2241 WITH ANY DIMENSIONAL COMPATIBLE FITTINGS LISTED HEREIN
    - PVC PIPE SCHEDULE 40 PER ASTM D1785 AND PVC FITTINGS SCHEDULE 40 PER ASTM D2466.
  - WHERE PERFORATED PIPE IS REQUIRED THE PERFORATIONS SHALL BE AS SPECIFIED UNDER ASTM D2729.
  - THE 4" SOLID WALL DRAIN PIPE AND LEAK DETECTION WELL PIPING SHALL BE ANY OF THE PIPES AND FITTINGS LISTED IN 1 (a) THROUGH 1(e) ABOVE.
  - THE INLET PIPE AND FITTINGS SHOULD BE PRESSURE-RATED AS DESCRIBED IN 1(d) OR 1(e).
  - BOTH PRIMER PER ASTM F856 AND SOLVENT CEMENT PER ASTM D2564 SHALL BE USED TO JOIN PIPING IN ACCORDANCE WITH ASTM D2855.
  - UNDERGROUND INSTALLATION SHALL BE PER ASTM D2321.
  - ALL CLAMPS FOR BOOTS SHALL BE STAINLESS STEEL CLAMPS.

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|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <div> <div> <div>ENG. RECORD</div> <div>DATE</div> </div> <div> <div>DRAFTING</div> <div>DK</div> <div>3/28/94</div> </div> </div> <div> <div>CAD DRAFTING</div> <div>PD</div> <div>3/29/94</div> </div> <div> <div>CHECKED</div> <div></div> <div></div> </div> <div> <div>PROJECT APPROVAL</div> <div></div> <div></div> </div> <div> <div>SURVEY DATE</div> <div></div> <div></div> </div>           |  |  |  |  |  |  |  |  |  | <div> <div> <div>El Paso</div> <div>NATURAL GAS COMPANY</div> </div> <div>EVAPORATION POND</div> <div>POND AND LINER WEIGHT PLANS</div> </div> <div> <div>SCALE: NONE</div> <div>DWG. NO.</div> <div>STD-1-M337</div> </div> <div> <div>W.O.: L5490/L5491</div> <div>REV.</div> <div></div> </div> |  |  |  |  |  |  |  |  |  |  |  |
| <div> <div> <div>STD-1-M338</div> <div>DWG. NO.</div> </div> <div> <div>SECTIONS AND DETAILS</div> <div>TITLE</div> </div> </div> <div> <div>NO.</div> <div>DATE</div> <div>BY</div> </div> <div> <div>DESCRIPTION</div> <div>W.O.</div> <div>APP.</div> <div>PRT.</div> <div>SEP.</div> <div>DATE</div> <div>TO</div> <div>W.O.</div> </div> <div> <div>REVISIONS</div> <div>PRINT RECORD</div> </div> |  |  |  |  |  |  |  |  |  | <div> <div> <div>LEGEND</div> <div></div> </div> <div> <div>REFERENCE DRAWINGS</div> <div></div> </div> </div>   |  |  |  |  |  |  |  |  |  |  |  |