

# GENERAL CORRESPONDENCE

**YEAR(S)**:

1997-1988



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

August 21, 1997

## CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-964

Mr. Bob Patterson Rowland Trucking P.O. Box 99 Eunice, New Mexico 88231

Re: Inspection Report Carlsbad Facility Carlsbad, New Mexico

Dear Mr. Patterson:

The New Mexico Oil Conservation Division (OCD) would like to thank you for your cooperation during the July 29, 1997 inspection of the Carlsbad facility located in Carlsbad, New Mexico. Comments from the inspection conducted are as follows:

1. <u>Drum Storage:</u> All drums that contain materials other than fresh water must be stored on an impermeable pad (i.e. concrete, asphalt, or other suitable containment) with curbing. All Empty drums should 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 should also be stored on an impermeable pad with curbing.

Empty drums, and drums containing fluids were located within the facility that were not properly stored.

All drums should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

2. <u>Process Area:</u> 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.

The KCl mixing vat needs containment to prevent discharge to the ground surface.

The areas around the truck wash and the frac tank clean-out show evidence that leaks and spills are reaching the ground surface. Mr. Bob Patterson August 21, 1997 Page 2

3. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water or alcohol must be bermed to contain a volume of one-third more than the total volume of the largest or all interconnected tanks. All new facilities or modifications to existing facilities must have the tanks placed on an impermeable pad so that leaks can be identified.

The above ground tanks holding frac tank clean-out wastes does not have proper berming.

The brine storage area does not have proper berming.

The used motor oil container does not have proper berming.

- 4. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have pad and curb type of containment below them unless they contain alcohol or fluids which are gases at normal atmospheric pressure and temperature. No berms are required for saddle tanks.
- 5. <u>Tank Labeling:</u> All tanks should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.
- 6. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation and must incorporate secondary containment and leakdetection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing and visual inspection of cleaned out tanks /or sumps.

The wastes collected in the below grade sump at the truck wash area are non-exempt and need to be tested for hazardous constituents and receive OCD approval prior to disposal at an OCD approved site. Please test the truck wash wastes and submit the results to the OCD by October 1, 1997.

Fluids are present in the leak detection system at the frac tank washout. The fluids need to be removed and the leak detection system monitored monthly for leaks in the washout. Frac tank washout fluids are exempt wastes and should be disposed of properly.

7. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter. Companies may propose various methods for testing such as pressure testing or other means acceptable to the OCD.

Mr. Bob Patterson August 21, 1997 Page 3

- 8. Housekeeping: All systems designed for spill collection/prevention should be inspected frequently to ensure proper operation and to prevent overtopping or system failure.
- 9. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the appropriate OCD District Office.

Once again, thank you for your time during our recent visit to your facility. If you have any questions, please call me at (505) 827-7155.

Sincerely, Mark Ashley

Geologist

xc: OCD Artesia Office

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# ROWLAND TRUCKING COMPANY

PHONE [505] 397-4994

418 SOUTH GRIMES MOBBS, NEW MEXICO 88240 PHONE [505] 393-9023

SUSERVATION DIVISION

June 25, 1997

State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 S Pacheco Santa Fe, NM 87505

RE: Discharge Plan GW-278 Carlsbad Facility (Rowland Trucking Co., Inc.) Eddy County, New Mexico

Dear Mr. LeMay,

Enclosed you will have a check payable to NMED Water Quality Management in the amount of \$1,430 to cover the \$50 filing fee and the \$1,380 for oil field service companies five year discharge plan.

Thank you for your assistance in preparing our approved plan.

Sincerely,

ROWLAND TRUCKING CO., INC.

Peter M. Turner Vice-president

PMT/lg

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STATE OF NEW MEXICO ON CONSERVATION DIVISION MEMORA	ANDUM OF MEETING OR CON	VERSATION
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Originating Party		Other Parties
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Subject ROMAND TRUCKONG- WCUMM PRAFLERA FRO	1	(GW-2PD)
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## STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 2 8 1997 OIL CONSERVATION DIVISION

Environmental Bureau

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

(GW-278) - Rowland Trucking Company, Inc., Pete M. Turner, (505) 885-2053, 1609 East Green, Carlsbad, New Mexico 88220, has submitted a discharge application for the Carlsbad Terminal located in Section 33 and 34, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico. All wastes generated will be stored in closed top receptacles prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 1,500 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 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 applications, 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 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 based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

	STATE OF NEW MEXICO	
	OIL CONSERVATION DIVISION	
SEAL	NO EFFECT FINDING The described action will have no effect on listed spesies. WILLIAM J. LEMAY, Director	
	Date April 17, 1997	
	Consultation # 97 GWP-OCDI Approved by Dyana Approved	$\setminus$
	U.S. FISH and WILDLIFE SERVICE NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE ALBUQUERQUE, NEW MEXICO	

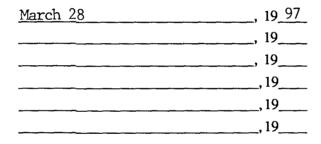
## **Affidavit of Publication**

State of New Mexico, County of Eddy, ss.

Amy McKay

being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the statewherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:



That the cost of publication is  $\frac{43.32}{2}$ , and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

day of

My commission expires 08/01/98 Notary Public

## Nº 19054

#### March 28, 1997

NOTICE OF PUBLICATION

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

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Any interested person may obtain further information from the Oil Conservation Division and may submit written com-ments to the Director of the Oil Conservation Division at the address given above. The discharge plan application 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 applications, the Director of the Oil Conservation Divi-sion shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him 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 based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

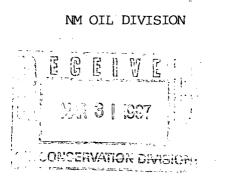
> STATE OF NEW MEXICO OIL CONSERVATION

WILLIAM J. LEMAY, Director

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The Santa Fe New Mexican

1849. We Read You. Since



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#### AFFIDAVIT OF PUBLICATION

## 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 renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico, 87505, Telephone (505) 827-7131:

(GW-278) ~ Rowland Trucking Company, Inc., Pete M. Turner, (505) 885-2053, 1609 East Green, Carlsbad, New Mexico 88220, has submitted a discharge application for the Carlsbad Terminal located in Section 33 and 34. Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico. All wastes generated will be stored in closed top receptacles prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 1,500 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 Di-

vision and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application 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 dis-Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comhim 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, Vit. the Director will approve or disapprove the proposed plan renewal based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan renewal based on the information in the discharge plan application and information submitted at the hearing -----

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

STATE OF NEW MEXICO **OIL CONSERVATION** DIVISION WILLIAM J. LEMAY, Director <u>Legal</u>#61432 Pub. March 26, 1997

202 East Marcy Street • P.O. Box 2048

## STATE OF NEW MEXICO COUNTY OF SANTA FE

being first duly sworn declare and I, BETSY PERNER say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English charge plan applications, the 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 ments may be submitted to 1937; that the publication # 61432 a copy of which is hereto attached was published in said newspaper once each WEEK ONE for consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the \_\_\_\_\_\_ day of 1997 and that the undersigned has personal MARCH knowledge of the matter and things set forth in this affida-/S/ ADVERT Subscribed and sworn to before me on this 26 day of MARCH A.D., 1997 Notary Commission Expires OFFICIAL SEAL Candace C. Ruiz NOTARY PUBLIC STATE OF NEW YE My Commission Expires

Santa Fe,

New

Mexico

8750

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## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

March 21 , 1997

CARLSBAD CURRENT ARGUS P. O. Box 1629 Carlsbad, New Mexico 88221 **RE:** NOTICE OF PUBLICATION

ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

- 1. Publisher's affidavit in duplicate.
- 2. Statement of cost (also in duplicate.)
- 3. CERTIFIED invoices for prompt payment.

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than March 28 , 1997.

Sincerely,		.• • 
Sally E. Martinez Administrative Secretary	262 670 Certified Mail Certified Mail Certified Mail Much Much Much Code Code Code Mom Mom	ol March the . "
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#### STATE OF NEW MEXICO

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director

SEAL



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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director

SEAL



TRUCKING CO., INC. P.O. BOX 340 HOBBS, NEW MEXICO 88241

PHONE (505) 397-0199

MARCH 11, 1997

FAX (505) 397-0392

fw-278

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

ATTN: ENVIRONMENTAL DIVISION MR. MARK ASHLEY

DEAR SIR,

ENCLOSED IS THE DISCHARGE PLAN FOR THE CARLSBAD TERMINAL. IF YOU HAVE ANY QUESTIONS OR NEED MORE INFORMATION PLEASE CONTACT BOB PATTERSON AT THE EUNICE TERMINAL. (505) 394-2581 OR P. O. BOX 99, EUNICE, NM 88231.

SINCERELY,

**BOB PATTERSON** 



State of New Mexico Energy Minerals and Natural Resources partment OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87501

GW-278

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES (Refer to OCD Guidelines for assistance in completing the application.)

I.	TYPE: <u>Oil &amp; Gas Service Company</u>
II.	OPERATOR: Rowland Trucking Company, Inc.
	ADDRESS: 1609 East Green, Carlsbad, New Mexico 88220
	CONTACT PERSON: <u>Pete M. Turner</u> PHONE: <u>885-2053</u>
III.	LOCATION:/4 LOT_/4 Section 33 & 34Township <u>21 South</u> Range2 <u>#7 East</u> Submit large scale topographic map showing exact location.
IV.	Attach the name and address of the landowner of the disposal facility site.
V.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tank on the facility.
VI.	Attach a description of all materials stored or used at the facility.
VII.	Attach a description of present sources of effluent and waste solids. Average quality and dail volume of waste water must be included.
VIII	Attach a description of current liquid and solid waste collection/treatment/disposal procedure:
IX	Attach a description of proposed modifications to existing collection/treatment/disposal system
X.	Attach a routine inspection and maintenance plan to ensure permit compliance.
XI.	Attach a contingency plan for reporting and clean-up of spills or releases.
XII.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will no adversely impact fresh water. Depth to and quality of ground water must be included.
XIII.	Attach such other information as is necessary to demonstrate compliance with any other OCl rules, regulations and/or orders.
KIV.	CERTIFICATION I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Pete M. Turner Title: Manager
	Signature: Lete M. June Date: 3-10-97

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office

## LIST OF ATTACHMENTS

- A. Notification of Hazardous Waste Activity
- B. Site Location Map & Site Layout Map
- C. Discharge Plan
- D. CRI Shipping Documents
- E. Material Safety Data Sheets
- F. Summary of Sampling Activities
- G. Summary of Analytical Results
- H. Chain of Custody

# ATTACHMENT A

S	EP	

#### ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

4.12.3. DH.

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act*(RCRA)*. Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management 'eports and documents required under Subtitle C of RCRA.

EPAID NUMBER	MHL952004707		·
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	CARLSDAD	NИ	88220
EPA Form 8700-12B (4-80)			

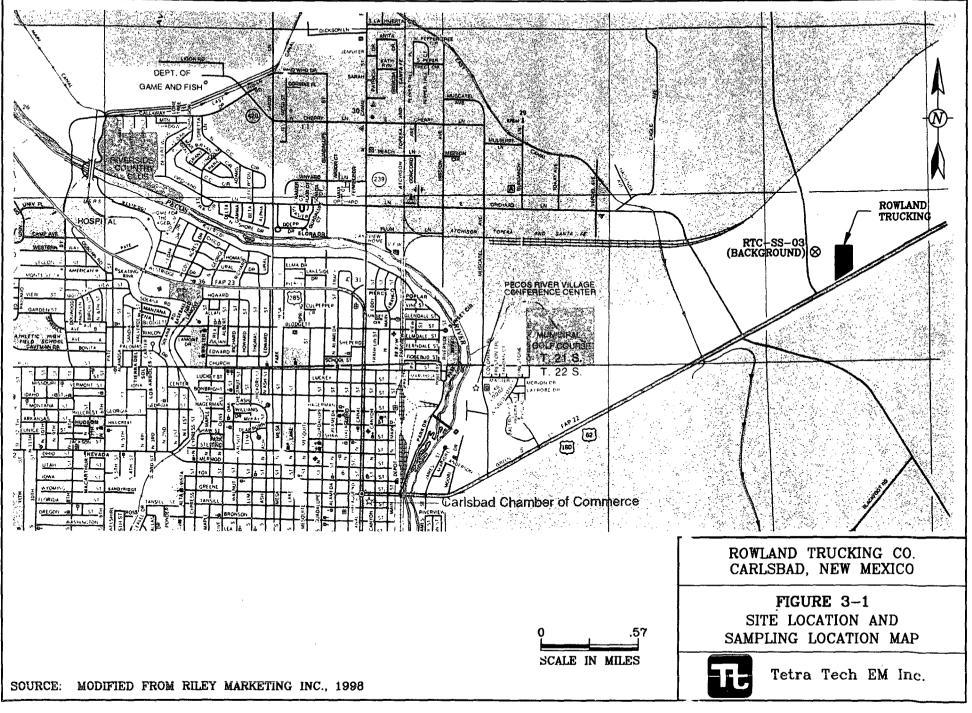
GSA NO 0246 EPA OF Please print or type with EUTE type /12 chai per incht in the unshaded areas only R.V. Please refer to the Instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act). United States Environmental Protection Agency Washington, DC 20480 میں موجوع کا ایک 3.31.89 SEPA Notification of Hazardous Waste Activity D.A. 4.5.87 For Official Use Only C с Date Received (yr. davi DovoragA 1021 C MM 98-256-4767 F 1 9492 Name of Installation N v II. Installation Mailing Address Street or P.O. Box 01 0 B Y 2 ZIP Code City or Town State 31 2 2 10 N М D 81 . III. Location of Installation Street or Route Numbe 05 City or Town State ZIP Code 8 N M 8 D IV. Installation Contact Name and Title (last, first, and job title) one Number aa code and numbe 8 18 5 Ę, C W D н V. Ownership 后的 A. Name of Installation's Legal Owner B. Type of Ownership (enter code) τ. м F. R N τ 0 VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.) A. Hazandous Waste Activity 8. Used Oil Fuel Ad 1b. Less than 1,000 kg/mo. a. Off-Specification Used Oil Fuel 1a. Generator (onter X and mark appropriate. 2. Transporter ------ D a. Generator Markoong to 3. Treater/Storer/Disposer 4. Underground Injection b. Other Marketer 138C**a>** 2 MAR 2 C. Burner 5. Market or Burn Hazardous Waste Fuel (enter 'X' and mark appropriate boxos below) 3 11.7 <u>.</u>. 7. Soactrication Used Oil Fuel Markets (origo, site Burner); Who First Claims the Oil Meets Up Soechestion a. Generator Merketing to Burner h. Other Marketer يمد والارتبار الارتجاب الترارية متراكبتها التهيية C c. Burner VII. Waste Fuel Burning: Type of Combustion Device (emer X" in all appropriate bases to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.) A. Utility Boiler B. Industrial Boiler C. Industrial Furnace - .! .. VIII. Mode of Transportation (transporters only — enter 'X' in the appropriate box(es) A Air 8. Rail C. Highway 0. Water E. Other (specify) IX. First or Subsequent Notification Mark X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below. C. Installation of the Hittenste C A. First Notification C 8. Subsequent Notification (complete nem C) ErA Form 8700-12 (Rev. 11-85) Previous edition is obsolete 

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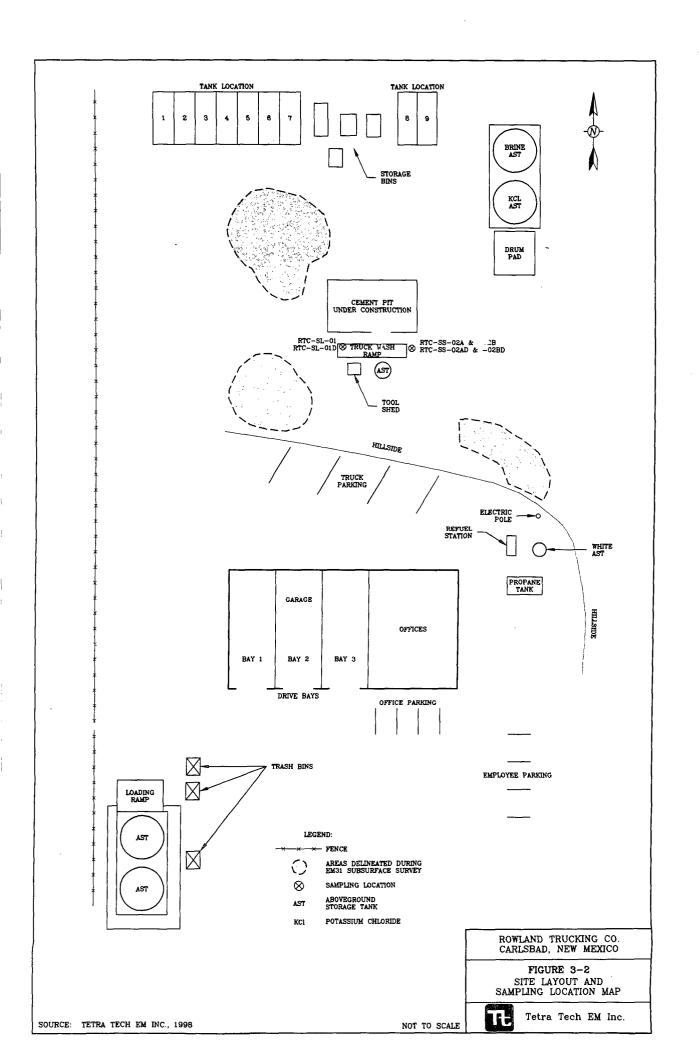
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## ATTACHMENT B



3-1



# ATTACHMENT C

ROWLAND

TRUCKING CO., INC. P.O. BOX 340 HOBBS, NEW MEXICO 88241

PHONE (505) 397-0199

MARCH 11, 1997

FAX (505) 397-0392

fw-278

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505 MAR | 3 1997

ONSERVATION DI

ATTN: ENVIRONMENTAL DIVISION MR. MARK ASHLEY

DEAR SIR,

ENCLOSED IS THE DISCHARGE PLAN FOR THE CARLSBAD TERMINAL. IF YOU HAVE ANY QUESTIONS OR NEED MORE INFORMATION PLEASE CONTACT BOB PATTERSON AT THE EUNICE TERMINAL. (505) 394-2581 OR P. O. BOX 99, EUNICE, NM 88231.

SINCERELY,

120 1/01

**BOB PATTERSON** 

6W-213

## DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES (Refer to OCD Guidelines for assistance in completing the application.)

I.	TYPE: <u>Oil &amp; Gas Service Company</u>
II.	OPERATOR: Rowland Trucking Company, Inc.
	ADDRESS: 1609 East Green, Carlsbad, New Mexico 88220
	CONTACT PERSON: <u>Pete M. Turner</u> PHONE: <u>885-2053</u>
III.	LOCATION: <u>/4 LOT</u> /4 Section 33 & 34Township <u>21 Bouth</u> Range2 <u>#7 East</u> Submit large scale topographic map showing exact location.
IV.	Attach the name and address of the landowner of the disposal facility site.
V.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tank on the facility.
VI.	Attach a description of all materials stored or used at the facility.
VII.	Attach a description of present sources of effluent and waste solids. Average quality and dail volume of waste water must be included.
VIII	Attach a description of current liquid and solid waste collection/treatment/disposal procedure:
IX	Attach a description of proposed modifications to existing collection/treatment/disposal system:
Х.	Attach a routine inspection and maintenance plan to ensure permit compliance.
XI.	Attach a contingency plan for reporting and clean-up of spills or releases.
XII.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will ne adversely impact fresh water. Depth to and quality of ground water must be included.
XIII.	Attach such other information as is necessary to demonstrate compliance with any other OCI rules, regulations and/or orders.
XIV.	CERTIFICATION I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: PeterM. Turner Title: Manager
	Signature: Vete M. June Date: 3-10-97
DISTRIBU	JTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office

#### STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

## DISCHARGE PLAN APPLICATION

## ROWLAND TRUCKING CO., INC. 1609 EAST GREEN CARLSBAD, NEW MEXICO 88220

## I. TYPE OF OPERATION

AN OIL AND GAS SERVICE COMPANY THAT PROVIDES TRANSPORTATION OF FLUIDS, USED FOR, OR IN CONJUNCTION WITH, THE DISCOVERY, DEVELOPMENT, PRODUCTION, REFINING, PROCESSING, AND OR STORAGE OF NATURAL GAS AND PETROLEUM, AND ITS PRODUCTS AND BY-PRODUCTS.

## II. NAME OF OPERATOR

ROWLAND TRUCKING CO., INC. 1609 EAST GREEN CARLSBAD, NEW MEXICO 88220 (505) 885-2053 PETE M. TURNER, MANAGER

## III. LOCATION OF DISCHARGE PLAN

LOT 4 OF THE INDUSTRIAL PARK SUBDIVISION LOCATED IN PARTS OF SEC 1 IONS 33 & 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST (SEE LOCATION MAP, EXHIBIT I)

## **IV. LANDOWNER**

ROWLAND TRUCKING CO., INC. P. O. BOX 340 HOBBS, NEW MEXICO 88240 (DISCHARGE PLAN--PAGE 2.)

## V. FACILITY DESCRIPTION

SEE EXHIBIT II.

#### VI. STORED MATERIAL DESCRIPTION

SEE EXHIBIT III.

#### VII. SOURCES AND ESTIMATED QUANTITIES OF WASTES

1. VACUUM TRAILER WASTES: VACUUM TRAILERS ARE WASHED OUT WITH FRESH WATER INTO A WASH-OUT PIT. THE FREE WATER GENERATED BY THIS PROCESS IS APPROXIMATELY TEN BARRELS A DAY. A MINOR AMOUNT OF SOLIDS ARE GENERATED FROM THIS TRAILER WASHOUT.

2. FRAC TANK WASTES: FRAC TANKS ARE JETTED AND WASHED OUT WITH FRESH WATER INTO A WASH-OUT PIT. THE FREE WATER GENERATED BY THIS PROCESS IS APPROXIMATELY FORTY BARRELS A DAY. APPROXIMATELY ONE YARD PER DAY OF SOLID MATERIAL (MOSTLY FRAC SAND) IS GENERATED FROM THIS PROCESS.

3. MOTOR OIL & LUBRICATION WASTES: ENGINE OILS WHICH ARE DRAINED DURING VEHICLE MAINTENANCE PROGRAMS GENERATE APPROXIMATELY 220 GALLONS PER MONTH.

4. USED OIL FILTERS: OIL FILTERS ARE DRAINED FOR 24 HOURS INTO THE WASTE MOTOR OIL TANK. APPROXIMATELY TWENTY-FIVE FILTERS PER MONTH ARE GENERATED.

5. USED SOLVENT FILTERS: A SOLVENT TYPE PARTS CLEANER IS USED IN THE MAINTENANCE SHOP. THE SOLVENT IS FILTERED AND RECYCLED THROUGH THE MACHINE. THE FILTERS ARE CHANGED ABOUT FOUR TIMES A YEAR.

## VIII. <u>DESCRIPTION OF LIQUID AND SOLID WASTE COLLECTION &</u> <u>DISPOSAL</u>

1. VACUUM TRAILERS AND FRAC TANK WASTES: THE FREE WATER, BS&W, AND SAND SOLIDS FROM THESE SOURCES ARE COLLECTED INTO A CONCRETE PIT. THIS PIT HAS A DOUBLE LINED POLYETHYLENE GEOMEMBRANE WITH A LEAK DETECTION SYSTEM UNDER IT. THE LIQUIDS ARE SIPHONED OFF THE TOP OF THE PIT AND TRANSPORTED TO ROWLAND TRUCKING CO., INC. BONES SPRINGS SWD FOR DISPOSAL. THE SOLIDS ARE LOADED INTO DUMP TRUCKS AND HAULED TO CONTROL RECOVERY, INC., A NEW MEXICO LICENSED SOLID WASTE DISPOSAL FACILITY. THIS SOLID WASTE DISPOSAL IS PERMITTED ON NMOCD FORM C-117. (SEE EXHIBIT IV) (DISCHARGE PLAN--PAGE 3)

2. MOTOR OIL & LUBRICATION WASTES: THIS WASTE OIL IS STORED IN A 1000 GALLON TANK, MARKED "USED MOTOR OIL ONLY". THIS OIL IS PERIODICALLY PICKED UP BY INDUSTRIAL SERVICE CORPORATION. A HAZARDOUS WASTE MANIFEST IS ISSUED TO ROWLAND TRUCKING CO., INC. PRIOR TO REMOVAL.

3. USED OIL FILTERS: AFTER A "USED OIL FILTERS ONLY" DRUM IS FILLED, IT IS TRANSPORTED TO ROWLAND TRUCKING RIG-UP SHOP, WHERE THE FILTERS ARE CRUSHED AND EVENTUALLY PICKED UP BY INDUSTRIAL SERVICE CORPORATION, A PERMITTED HAZARDOUS WASTE FACILITY.

4. USED SOLVENT FILTERS: THESE FILTERS ARE ALSO SHIPPED TO ROWLAND RIG-UP SHOP AND CRUSHED AND DISPOSED IN A LIKE MANNER OF THE OIL FILTERS.

## IX. PROPOSED MODIFICATIONS

ROWLAND TRUCKING CO., INC. PROPOSES TO CONSTRUCT AN ADDITIONAL CLEAN-OUT PIT ADJACENT TO THE EXISTING PIT. (SEE EXHIBIT II FOR LOCATION) THE PROPOSED PIT WILL BE 30' WIDE, 71' LONG AND SLOPE 7' FRONT TO BACK. IT WILL HAVE A DOUBLE LINED POLYETHYLENE GEOMEMBRANE WITH A LEAK DETECTION SYSTEM UNDER IT. (SEE EXHIBIT V) IT WILL HAVE A 50' x 71' CONCRETE SLAB TO DRAIN AND DRY SOLIDS. THIS DRYING SLAB WILL ALSO HAVE A GEOMEMBRANE UNDER IT WHICH WILL BE TIED BACK TO THE CLEAN-OUT PIT. THIS NEW PIT WILL ALLOW ROWLAND TRUCKING TO DEAL WITH A LARGER VOLUME BEFORE HAVING TO DISPOSE. IT WILL ALSO BE MORE SAFE TO TRANSPORT DRIED SOLIDS RATHER THAN LIQUID.

#### X. ROUTINE INSPECTION AND MAINTENANCE PLAN

VISUAL CHECKS ARE MADE DAILY BY DRIVERS AND SUPERVISORY PERSONNEL. A FACILITY SAFETY/ENVIRONMENTAL INSPECTION IS MADE ON A MONTHLY BASIS AND KEPT ON FILE. (SEE EXHIBIT VI)

## XI. CONTINGENCY PLAN FOR REPORTING AND CLEAN-UP OF SPILLS OR RELEASES

1. SPILL REPORTING FORM (SEE EXHIBIT VII)

2. LOCAL RESPONSE PERSONNEL AND EMERGENCY PHONE NUMBERS (SEE EXHIBIT VIII)

#### XII. GEOLOGICAL/HYDROLOGICAL EVIDENCE

1. NO BODIES OF WATER, STREAMS, OR CANALS ARE LOCATED WITHIN A ONE MILE RADIUS OF THIS FACILITY. THERE ARE FOUR DOMESTIC WATER WELLS IN SEC.26, TWP.21, RGE. 27 THAT RANGE IN DEPTH FROM 58 FEET TO 80 FEET.

TDS & 1,500 mg/1

#### (DISCHARGE PLAN--PAGE 4)

2. TOTAL DEPTH TO THE GROUND WATER IS APPROXIMATELY 50 FEET. THIS WATER IS USED PRIMARILY FOR DOMESTIC AND MINING USE.

3. SOIL TYPE:

0' TO 4'--CAP ROCK 4' TO 38'--CALICHE 38' TO 50'--YELLOW CONGLOMERATE 50' TO 120'--WHITE LIME 120' TO 130'--YELLOW LIME

## XIII OTHER INFORMATION THAT DEMONSTRATES COMPLIANCE

1. ALL HYDROCARBON TRANSPORTATION SUCH AS TANK CLEANINGS ARE PERMITTED ON OCD FORM C-117.

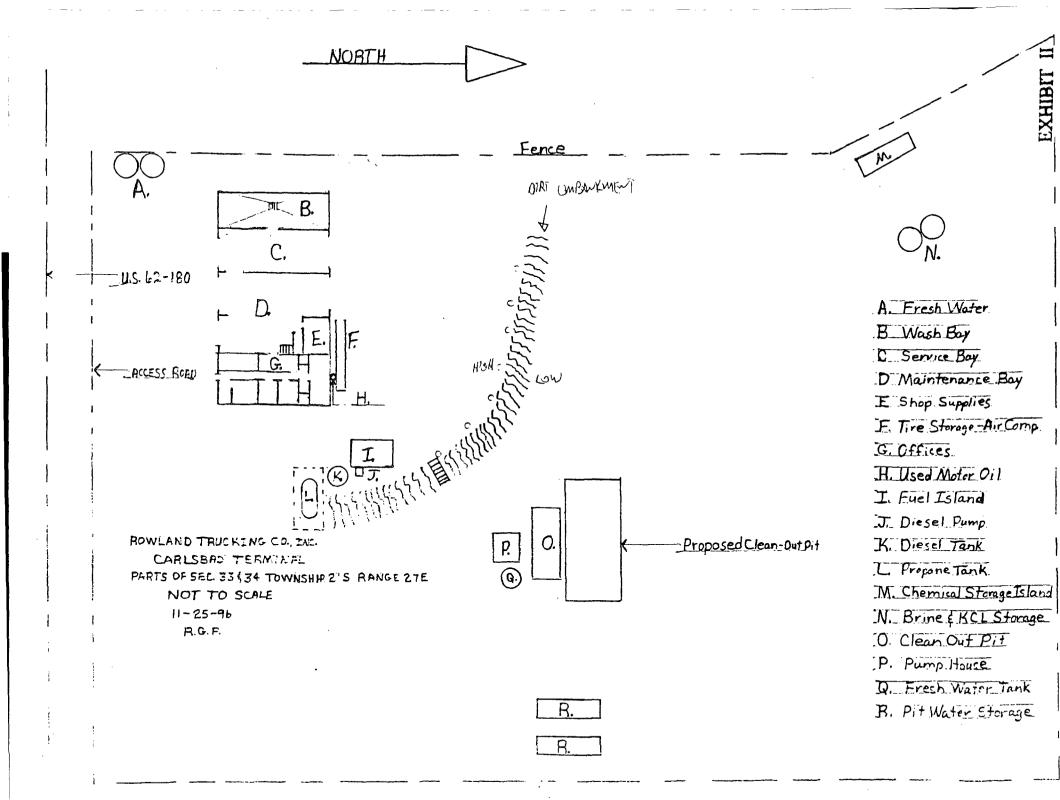
2. PROPOSED EXPANSION OF CLEAN-OUT PIT IN ORDER TO SEPARATE LIQUIDS AND SOLIDS MORE EFFICIENTLY.

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# SITE LOCATION MAP

## CARLSBAD TERMINAL 1609 EAST GREEN

LOT 4 IN PARTS OF SEC.33&34, T21S, R27E.



## ROWLAND TRUCKING CO. INC. CARLSBAD TERMINAL

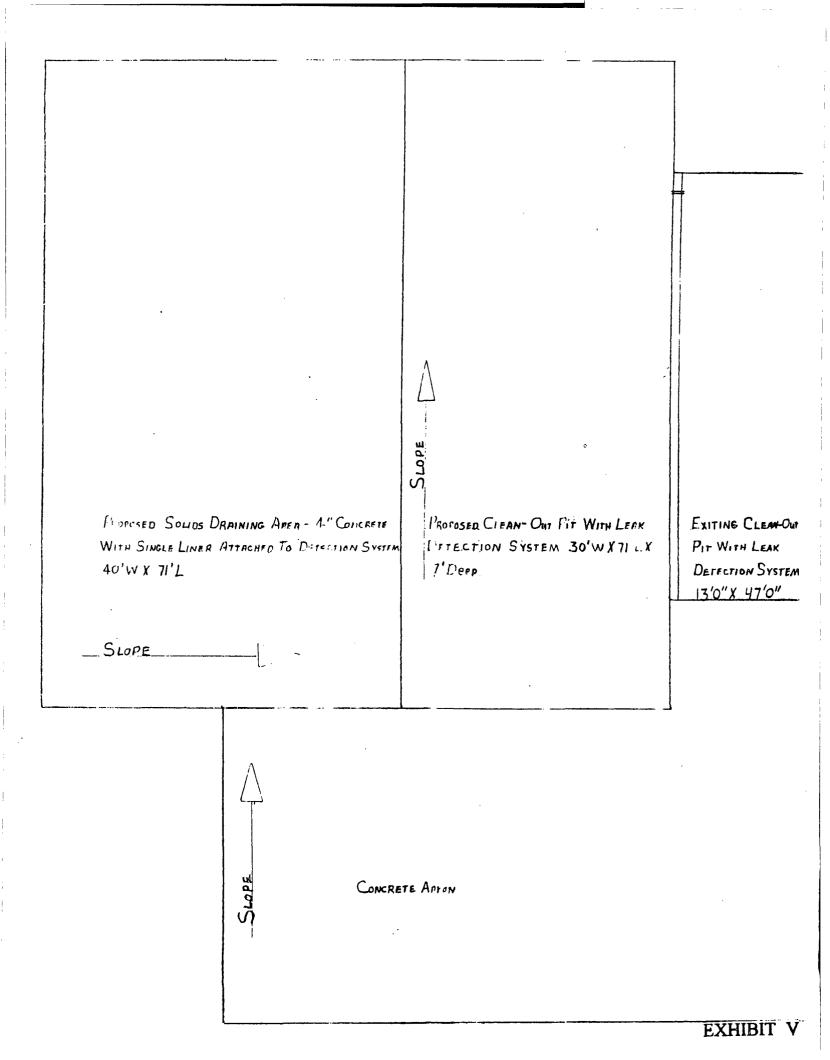
## MATERIAL STORAGE DESCRIPTION

PRODUCT NAME	MAXIMUM AMT.	AVERAGE AMT.	DAYS ON	CONTAINER	LOCATION ID	
	GALLONS	GALLONS	SITE	TYPE	BY MAP	
CHEVRON MOTOR OIL	250	125	365	STEEL	C	
DIESEL MOTOR FUEL	11,300	3000	365	STEEL	K	
PROPANE	2000	1000	365	STEEL	L	
USED MOTOR OIL	1150	250	365	STEEL	Н	
USED OIL FILTERS	110	50	365	STEEL	D	
UNICHEM PRODUCTS						
TH-370	400	100	365	FIBERGLASS	M	
TC-420	400	100	365	FIBERGLASS	. M	
TS-255	400	100	365	FIBERGLASS	М	
TH-377	400	100	365	FIBERGLASS	M	
ANTIFREEZE II	400	100	365	FIBERGLASS	M	
AGRI-EMPRESA PRODUCTS						
KCL (POWDERED)	35000 LBS.	20000 LBS.	365	BAGS/BULK	A	
ZEP PRODUCTS						
DYNA-143	40	30	365	STEEL	<u> </u>	
ECCO PRODUCTS						
BROWN TRUCK WASH	40 LBS	20 LBS	365	CARDBOARD	С	
BAKER CHEMICAL PRODUCTS						
EB-8100	100	50	365	FIBERGLASS	M	
PT-2072	100	25	365	FIBERGLASS	M	
TRUCK & FRAC TANK WASTE						
PIT WATER	400 BBL.	25 BBL.	365	STEEL	R	
SOLIDS	12 CU. YDS.	5 CU. YDS.	365	CONCRETE PIT	0	

OIL CONSERVATION DIVISI	ספי ובטשטשאנשטאן ד ו Revisid 4-1-91
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MONTH					
LOCATION			+		<u> </u>
INSPECTOR		+	+	<u> </u>	+
PERSON ACCOMPANYING		+		<u> </u>	<u> </u>
PENSON ACCOMPANTING		DATE	DATE	DATE	DATE
ITEM	COMMENTS	DATE	DATE	PALE	UALE
Fire_extinguishers	Inspected monthly,charged and in place	· · ·			<u> </u>
First Aid Kits	Maintain contents, & eye wash solution				
Eye Washes	Sterile, current date			<u> </u>	
MSDS	All chemicals, accessible, including reag.				
Signs ·	Appropriate and legible	· <b> </b>		<u> </u>	
Security	Locks, lights, etc.				
Bulk Tanks	No leaks, trucks using bonding cables				
a. Dikes	No standing water, intact, sump empty				
b. Hazcom labels	Appropriate, legible	<u> </u>			
	Closed, no leaks				
c. Valves & Plugs	Closed, no leaks Carried on truck & under valves if inside				
d. Spill buckets		}			
Drums	No standing water po locks				
a. Dikes	No standing water, no leaks				
b. Empties c. Concrete	Horizontal, no holes, bunged, chocked Not on dirt				
d. Labels	Hazcom, DOT, appropriate and legible				
Spill Kits	Available and full of pigs, tyvek, labels				
Salvage drum	Available, labeled				
Hazardous waste storage	Properly labeled, log sheet, location, leaks				· · · ·
Monthly hazardous waste re					
Personal protective equip.	Available and being used				
Housekeeping	Neat, no trash, no chemicals,				
Eye wash and shower Trucks	Eye wash in all locations, and operable				
Sewers/Drains/Sinks	Inspected daily, in good repair,				
	No chemicals down sewer, sign on sink				
Electrical	GFCI 6' of sinks, grounded plugs, to code				
SCBA	Inspected monthly, charged and clean				
Forklifts	Condition, backup alarm				
	Trucks placarded, driver files OK				
SARA records	LEPC notified of chemical stored				
Salety meetings	Held monthly, documented				
H2S Monitors	Monthly calibration, and recorded				
Containers (all sizes)	Tops on and labeled				
Field Samples	No accumulation, proper disposal				
Facility inspections	Being performed and documented				
	Loading area, yard, warehouse				
Inventory	Not over 6 mo.				
	column if the inspected item is OK.				······
Place an X In the column	If the inspected item is unacceptable.				
Correct it if you can. Repo	rt it to your supervisor if you cannot.				
-					
COMMENTS (Use back if n	ecessary)				
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SPILL REPORT FORM DIRECTIONS ON REVERSE SIDE No.:
Substance Trade Name:
Date Spill Occurred/Discovered:Time:Time to cleanup:
Location (Be Specific):
Location Address: County: St:
Size/Type of Container: Physical State:
Volume or Weight of Spill: Qty. Material Collected:
Describe all persons and events leading to the spill:
Describe methods, tools, equipment, and materials used in containment &
cleanup:
List of all persons participating in cleanup and containment:
Reported by: Reported to:
Date Reported: Time Reported:
FOR OFFICE USE ONLY
<u>Constitutients</u> <u>Percent</u> <u>RO Value</u>
Lab Tests by: pH: Flash Point: Disposal Procedures:
·
ADDITIONAL REPORTS Agency Name(s): Phone #:
Individuals Contacted: Ext. Report#:
Reported By: Date: Time:
Comments:
Dollars assigned to spill:
VELOVI TONU TOND

## ROWLAND TRUCKING CO., INC. CARLSBAD TERMINAL

### EMERGENCY TELEPHONE NUMBERS

24 HOURS A DAY TELEPHONE NUMBER (505) 885-2053

## ALL EMERGENCIES-911

#### EMERGENCY CONTACT PERSONNEL ROWLAND TRUCKING

#### NAME

### TITLE

#### PHONE NUMBER

PETE M. TURNER JOHN (HUTCH) HUTCHESON GARY MICHAEL MARK PERRY C.W. WILLIAMS JAMES PARKER GENE BUTLER	MANAGER ASST. MANAGER SUPERVISOR SUPERVISOR SUPERVISOR SUPERVISOR SAFETY DIRECTOR	392-5005 885-1095 885-0230 887-4932 885-4842 885-8755 392-4721
COLUMBIA MEDICAL CENTER	MEDICAL FACILITY	。 887-4100
	LAW ENFORCEMENT AGENCIES	
CARLSBAD POLICE STATE POLICE SHER:FF DEPARTMENT		885-2111 885-3137 887-7551

#### FIRE DEPARTMENT AND AMBULANCE

FIRE DEPARTMENT	885-2111
AMBULANCE	885-2111

#### **ARTESIA OFFICE**

NEW MEXICO C.C.D.

748-1283

### 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 has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-278) - Rowland Trucking Company, Inc., Pete M. Turner, (505) 885-2053, 1609 East Green, Carlsbad, New Mexico 88220, has submitted a discharge application for the Carlsbad Terminal located in Section 33 and 34, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico. All wastes gen. Led will be stored in closed top receptacles prior to offisite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 1,500 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 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 applications, 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 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 based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 19th day of March 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

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## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOLUTCES DEPARTMENT

OR CONSERVATION DIVORTN 2000 & ACCHENU SANTA PL. NOV MONCO 87168 2001 807,7101

June 10, 1797

## CERTIFICO MAIL. RETURN RECEIPT NO. P-288-258-931

Mr. Pele Turner

Rowland Trucking Company, Inc. P.O. Box 340 Hobbs: New Mexico 88240

RE: Discharge Plan GW-278 Carisbad Pacility Eddy County, New Metho

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The ground water discharge plan GW-278, for the Rowland Trocking Company, Inc. (Rowland) Caristiad Facility located in Sections 13 and 34. Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The discharge plan consists of the original discharge plan application dated March 10, 1997. Enclosed are two copies of the conditions of approval: Please sign and return one copy to the New Mexico OB Conservation Division (OCD) Sanar Fe Office within 14 working days of receipt of this letter, a first state.

The discussion of the condition parsuant to Section 3100 of the New Mexico Water Quality Conset and the discussion of the CO Republicant. It is compared parameter to Section 1100.4. Please Procession and the discussion of the provide for markets fitting amendments or modificationia of many should contain the discussion of surplice waters could be used to the environment. Please of whited that all exposed pits including liked platform open hanks (bulke exceeding, (q. fort in diameter), shall be accessed, netted, or otherwise contained nonhazardous to within the including any bidded.

## Miner an Anna Marian

Please note that Section 3104 of the regulations require "When a facility has been approved." discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C. Rowland 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 in volume

Pursuant to Section 3109 G.4., this plan is for a period of five years. This approval will expire. on June 10: 2002, and Rowland should submit an application in simple time before this date. Note that under Section 3106 P. of the regulations of a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and it 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 renewal:

The discharge plan application for the Rowland Trucking Company, Inc. Carisbad Facility is subject to WOCC Regulation 3)14. Every alliable facility calculating a discharge plan will be assessed a free equal to the filme to as the full a file fold 5. The fold of the field service companies. The OCO has not received the Wine ice or the fast can The films ice and the fast fee are due upon receipt of this approval. The flat fee may be paid in a single payment the one the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due. on the date of the discharge plan approval.

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

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 William

TEL

# **ROWLAND TRUCKING COMPANY**

PHONE [505] 397-4994

418 SOUTH GRIMES HOBBS, NEW MEXICO 88240 PHONE [505] 393-9023

127

June 25, 1997

State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 S Pacheco Santa Fe, NM 87505

RE: Discharge Plan GW-278 Carlsbad Facility (Rowland Trucking Co., Inc.) Eddy County, New Mexico

Dear Mr. LeMay,

Enclosed you will have a check payable to NMED Water Quality Management in the amount of \$1,430 to cover the \$50 filing fee and the \$1,380 for oil field service companies five year discharge plan.

Thank you for your assistance in preparing our approved plan.

Sincerely,

RC<sup>-</sup> \_AND TRUCKING CO., INC.

Peter M. Turner Vice-president PMT/lg

## ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASE

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IN & SECURITY FEATURES INCLUDED, DETAILS ON BACK, & .....

## ATTACHMENT TO THE DISCHARGE PLAN GW-278 ROWLAND TRUCKING COMPANY, INC. CARLSBAD FACILITY DISCHARGE PLAN APPROVAL CONDITIONS (June 10, 1997)

- 1. <u>Payment of Discharge Plan Fees:</u> The filing fee and the flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
- 2. <u>Rowland Commitments:</u> Rowland will abide by all commitments submitted in the discharge plan application dated March 10, 1997.
- 3. <u>Waste Disposal</u>: All wastes shall be disposed of at an NMOCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous by characteristics may be disposed of at an NMOCD approved facility upon proper waste characterization per 40 CFR Part 261.
- 4. <u>Drum Storage:</u> 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. <u>Process Areas:</u> 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. <u>Above Ground Tanks</u>: 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 facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
- 7. <u>Above Ground Saddle Tanks</u>: 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. <u>Labeling:</u> All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.
- 9. <u>Below Grade Tanks/Sumps:</u> 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. Test results will be submitted to the OCD Santa Fe Division office within 30 days of testing.

- 10. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. Permittees 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. Test results will be submitted to the OCD Santa Fe Division office within 30 days of testing.
- 11. <u>Housekeeping:</u> All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any non-exempt contaminated soils that are collected at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.

- 12. <u>Spill Reporting:</u> All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Artesia District Office.
- 13. <u>Transfer of Discharge Plan:</u> 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.
- 14. <u>Closure:</u> The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulation in effect at the time of closure.
- 15. <u>Certification:</u> Rowland, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Rowland 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: ROWZAND TRUCKING COMPANY, INC. teh.Tun Title

N. JONES



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OLL CONSERVATION DIVISION 2040 South Pecheco Street Sants Fo, New Mexico 87505 (505) 027-7131

August 21, 1997

### CERTIFIED MAIL. RETURN RECEIPT NO. Z-765-962-964

N. A. BART

Mr. Bob Patterson Rowland Trucking P.O. Box 99 Eunice, New Mexico 88231

Re: Inspection Report Carlsbad Facility Carlsbad, New Mexico

Dear Mr. Patterson:

2.

The New Mexico Oil Conservation Division (OCD) would like to thank you for your cooperation during the July 29, 1997 inspection of the Carlsbad facility located in Carlsbad New Mexico. Comments from the inspection conducted are as follows:

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1. Drum Storage: All drums that contain materials other than fresh water must be stored on an impermeable pad (i.e. concrete, asphalt, or other suitable containment) with curbing. All Empty drums should 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 should also be stored on an impermeat's pad with curbing.

mpty drums, and drums containing fluids were located within the facility that were not properly stored.

All drums should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

Process Area: 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.

The areas around the truck wash and the frac tank clean-out show evidence that leaks and spills are reaching the ground surface.

The KCI mixing var needs containment to prevent discharge to the ground surface.

Mr. Bob Patterson August 21, 1997 Page 2

3. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water or alcohol must be bermed to contain a volume of one-third more than the total volume of the largest or all interconnected tanks. All new facilities or modifications to existing facilities must have the tanks placed on an impermeable pad so that leaks can be identified.

The above ground tanks holding frac tank clean-out wastes does not have proper berming.

The brine storage area does not have proper berming

The used motor oil container does not have proper berming

Above Ground Saddle Tanks: Above ground saddle tanks must have pad and curb type of containment below them unless they contain alcohol or fluids which are gases at normal atmospheric pressure and temperature. No berms are required for saddles tanks.

A. S. S. S.

- 5. <u>Tank Labeling</u>: All tanks should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.
- 6. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation 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 and visual inspection of cleaned out tanks /or sumps.

The wastes collected in the below grade sump at the truck wash area are non-exempt and need to be tested for hazardous constituents and receive OCD approval prior to disposal at an OCD approved site. Please test the truck wash wastes and submit the results to the OCD by October 1, 1997.

Fluids are present in the leak detection system at the frac tank washout. The fluids need to be removed and the leak detection system monitored monthly for leaks in the washout. Frac tank washout fluids are exempt wastes and should be disposed of properly.

. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter. Companies may propose various methods for testing such as pressure testing or other means acceptable to the OCD.

7.

## Mr. Bob Patterson August 21, 1997 Page 3

- 8. <u>Housekeeping</u>: All systems designed for spill collection/prevention should be inspected frequently to ensure proper operation and to prevent overtopping or system failure.
- 9. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the appropriate OCD District Office.

Once again, thank you for your time during our recent visit to your facility. If you have any questions, please call me at (505) 827-7155.

Sincerely. Mark Hel Mark Ashley

Geologist

xc: OCD Artesia Office:

# ROWLAND TRUCKING CO., INC. P.O. BOX 99 EUNICE, NM 88231 (505) 394-2581

**JANUARY 21, 1998** 

State of New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

ATTN: Mr. Mark Ashley

SUBJECT: Approval of proposed clean out pit at the Carlsbad Terminal

Dear Mr. Ashley,

Enclosed is a drawing of the proposed clean out pit to be constructed at the Carlsbad Terminal. This pit was proposed in the discharge plan under Section IX. Proposed Modifications. Construction is scheduled to began upon receiving written approval from your office. Please address any questions or comments to Bob Patterson at the above telephone number or box number.

Sincerely,

Bob Patterson, Rowland Trucking Co., Inc.



## NEW MEXICO NERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

February 6, 1998

## CERTIFIED MAIL RETURN RECEIPT NO. P-288-259-014

State Store

Mr. Bob Patterson Rowland Trucking P.O. Box 99 Eunice, New Mexico, 88231

Re: Clean Out Pit Approval Carlsbad Facility Eddy, New Mexico

### Dear Mir. Patterson:

The New Mexico Oil Conservation Division (OCD) has reviewed the Rowland Trucking Company, Inc. (Rowland) letter date January 21, 1998. It contains the plans for the proposed clean out pit located at the Carlsbad facility in Carlsbad, New Mexico. The proposed clean out pit was included as a modification in discharge plan renewal that was approved by the OCD on the June 10, 1997. The OCD hereby approves of the proposed plans under the conditions contained in the discharge plan renewal (GW-278) dated June 10, 1997.

Please be advised that Rowland is not relieved of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7155.

Mark Ashlets Geologisi

Sincere.

xc: OCD Artesia Office

# ATTACHMENT D

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09:18 FAX 5053970392 ROWLAND\_TRUCKING 04/28/98 CONTROLLED RECOVERY (505) 393-1079 Bill To: Address: COMPANY/GENERATOR: LEASE NAME: TRUCKING COMPANY АМ₽ TIME DATE: VEHICLE No .: DRIVER No.: OF MATERIAL ] DRILLING FLUIDS [ ] TANK BOTTOMS 1 EXEMPT FLUIDS L COMPLETION FLUIDS [ ] GAS PLANT WASTE ] C-117 No. CONTAMINATED SOIL [ ] OTHER MATERIAL PITNO DESCRIPTION VOLUME OF MATERIAL [ ] BBLS. I GALLONS AHD [ ] AFTER HOURS WASHOUT [ ]CALLOUT [ ] DEBRIS CHARG بالمراجبان المترافية I, represent and warrant that the wastes are: generated from oil and gas exploration and production operations; exempt fro Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes. and the providence and provide the contraction of the second and t AGENT SIGNATURE CRI REPRESENTATIVE · • : . · TANK NO. OFFICE USE: **OIL LEVELS** FEET INCHES GROSS BBLS DEDUCTIONS **1ST GAUGE** NET BBLS 2ND GAUGE MEASURE RECEIVED BS&W 22 25653 % FREE WATER BBLS White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter B-25251

Ø 12 ROWLAND\_TRUCKING 09:18 FAX 5053970392 04/28/98 **CONTROLLED RECOVER**  HOBBS, NEW MEXICO 88241 🐑 🥪 🗑.O. BOX 369 (505) 393-1079 Bill To: Address: COMPANY/GENERATOR: LEASE NAME: TRUCKING COMPANY: TIME: VEHICLE No.: DRIVER No .: DATE: TYPE OF MATERIAL [ ] DRILLING FLUIDS [ ] TANK BOTTOMS [ ] EXEMPT FLUIDS [ ] GAS PLANT WASTE 1 C-11/ No.: **J.COMPLETION FLUIDS** ſ CONTAMINATED SOIL [ ] OTHER MATERIAL TPITNU. DESCRIPTION VOLUME OF MATERIAL BBLS. ARD ] GALLONS []WASHOUT [ ]CALLOUT [ ]AFTER HOURS [ ] DEBRIS CHARC I, represent and warrant that the wastes are: generated from oil and gas exploration and production operations; exempt fro Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes. (SIGNATURE) AGENI CRI REPRESENT. **∀E**: (SIGN) TANK NO. OFFICE USE: OIL LEVELS INCHES GROSS BELS DEDUCTIONS FEET **1ST GAUGE** NET BBLS 2ND GAUGE MEASURE RECEIVED 10 8S & W 25652 % FREE WATER BBLS Canary - CRI Accounting White · CRI Pink - CRI Plant Gold - Transporter 8-25251

# ATTACHMENT E

Interior o	VETT AUTV	ר מינו אין	NOT T
Product Name: TECHNI-FOAM 59	, , , , , , , , , , , , , , , , , , , ,	ey/4/48	
Section: 01 PRODUCT IDENTIFICAT			
UNICHEM INTERNATIONAL INC. P.O. BOX 1499 707 N. LEECH HOBBS, NM 88241-1499	Emergency Telephone Previous Version Dat Date Prepared Version: 0000002		
Product Name: TECHNI-FOAM 593			
Trade Name: Defoamer			
Chemical Description: Proprietary blend of alcohols	and silicones.		
Section: 02 HAZARDOUS ING. DIEN			
Component Name 2-ethyl hexanol petroleum distillate		<u>CAS# % Range</u> 0104-76-7 < 95% 8476-34-6 < 10%	
Section: 03 PHYSICAL DATA			
Freezing Point: - 32 Deg.F. Specific Gravity(H2O=1) : C Appearance and Odor: Clear, an	.840 Solubility	in water: Insoluble	
Section: 04 FIRE AND EXPLOSION	HAZARD DATA		· · · ·
Flash Point (Test Method): 17	78 Deg.F TCC		
Extinguishing Media CO2, dry chemical, water spra keep containers cool. Isolate Contain fire fighting liquide	e "fuel" supply from fir		
Special F're Fighting Procedur Do not enter confined fire sp protective equipment includin	pace without proper pers ng NIOSH approved self-c	contained	
breathing apparatus with ful positive pressure demand mod of water or foam into hot, b splattering and increase fir to a safe area. Keep unneces	e. Do not inject a solid urning pools; this may c e intensity. Evacuate pe	i stream cause	
Unusual Fire and Explosion Ha This material is combustible may release vapors that pose vapors may travel along the	and under certain cond a severe fire hazard. T ground or be moved by	These	
ventilation and ignited by p sparks, heaters, smoking, el		25,	

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. Product Name: TECHNI-FOAM 593

ction: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED	
discharge, or other ignition sources at locations distant	
from material handling point. Containers may explode from	
internal pressure if confined to a fire. Keep unnecessary	
people away.	
ction: 05 HEALTH HAZARD DATA	
Iffects of Overexposure	
Eye Contact: can cause severe irritation. Can cause	
permament injury if not promptly treated.	
Skin Contact: can cause moderate irritation. Prolonged or	
repeated contact can result defatting and drying the	
skin whch may result in dermatitis. Can cause allergic	
skin reaction. Liquid is moderately toxic and may cause	
central nervous system depression if absorbed through	
the skin.	
Inhalation: may cause irritation of the nose, throat and respiratory tract. High vapor concentration may cause	
central nervous system depression evidenced by	
giddiness, headache, dizziness and nausea. In extreme	
cases, unconsciousness and death may occur.	
Ingestion: can cause gastrointestinal distress, headache,	
nausea, vomiting, central nervous system depression and	
unconsciousness. If this material is aspirated during	
ingestion or during vomiting, can cause chemical	
pneumonia, lung damage and death.	
Medical Conditions Aggravated by Exposure: preexisting eye,	
skin and respiratory disorders may be aggravated by exposure.	
Other Information: 2-ethylhexanol has been reported to be	
teratogenic (to cause birth defects in laboratory rats	
when administered orally to pregnant Wistar rats.	
Subsequent studies have shown not to cause birth defects	
in rats when administered by inhalation or dermally. It	
is believed that occupational exposure by inhalation or	
dermal route poses no significant threat to the	
embryo/fetus. Selected for NTP carcinogenesis studies, April 1990	
Emergency and First Aid Procedures	

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

#### EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

#### Product Name: TECHNI-FOAM 593

Section: 05 HEALTH HAZARD DATA CONTINUED INHALATION Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention. INGESTION Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person. Section: 06 REACTIVITY DATA Stable (Y=Yes/N=No): Y Stability -- Conditions to Avoid None known. Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids. Hazardous Decomposition Products Smoke, carbon dioxide, carbon monoxide, oxides of nitrogen. Hazardous Polymerization May Occur(Y=Yes/N=No): N Hazardous Polymerization -- Conditions to Avoid None \_\_\_\_\_\_ Section: 07 SPILL OR LEAK PROCEDURES \_\_\_\_\_

Steps to be Taken if Material is Released or Spilled

Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged and minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers. Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA and/or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required.

Waste Disposal Method

Treatment, storage, transportation and disposal must be in accordance with EPA or State regulations under authority of

ection: 07 SPILL OR LEAK PROCEDURES CONTINUED	
the Resource Conservation and Recovery Act (40 CFR 260-271).	
ection: 08 SPECIAL PROTECTIVE INFORMATION	
Respiratory Protection	
If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should	
be implemented to reduce exposure.	
Ventilation	
The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).	
Protective Gloves	
Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)	
Eye Protection	
Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.	
Other Protective Equipment	
Eye wash and safety shower	
Section: 09 SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling and Storing Avoid contact with eges, skin or clothing Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even	
empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.	
Other Precautions	
Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use programs to empty container	
marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with	

Product Name: TECHNI-FOAM 593

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Section: 09 SPECIAL PRECAUTIONS	CONTINUED	
adequate ventilation. Wash thoroughly af Containers should be grounded and bonded container(s) when being emptied. Contain washed out and used for other purposes. FOR INDUSTRIAL USE ONLY	to receiving ers should not be	
Section: 10 REGULATORY INFORMATION		
Superfund Amendments and Reauthorization		II
Section 302/304-Extremely Hazardous Sub	stances (40 CFR 355)	
SARA requires emergency planning based Quantities (TPQs) and release reporting Quantities (RQs) in 40 CFR 355 (used for and 312). These values are subject to regulations should be consulted to ver- requirements. Components present in this product could require reporting under the state	on Threshold Planning g based on Reportable or SARA 302, 304, 311 change and the ify current statutory at a level which	
Component Name **NONE**	RQ TPO	2 <u>% Range</u>
The Superfund Amendments and Reauthori: require submission of reports (chemical Tier II) to the State Emergency Respon Emergency Response Committee and the lo The SARA physical and health hazards re are:	l list, MSDS, Tier I & se Commission, Local ocal fire department. elated to this product	
	udden Release of Pressure eactive	<u>x</u> rire
Section 313-List of Toxic Chemicals (4 This product contains the following to to the reporting requirements of Secti Emergency Planning and Communicy Right (40 CFR 372). This information should MSDSs that are copied and distributed	xic chemicals subject on 313 of the -to- אע Act of 1986 be included in all	
Component Name **NONE**	CAS #	<pre>% Range</pre>
CERCLA, 40 CFR 261 AND 302 The Comprehensive Environmental Respon Liability Act of 1980 (CERCLA) require National Response Center 1-800-424-880 Hazardous Substances equal to or great quantities (RQs) listed in 40CFR 302.4 pounds for the component and not the m	es notification of the 2 of any release of a 2 er than the reportable 2. Values are given in	

	TINUED	
(These values are subject to change and the	-	
should be consulted to verify current statu	tory levels.)	
Component Name	CAS #	CERCLA RQ
* * NONE * *		
DSHA Exposure Limits		·····
Component Name		
petroleum distillate		
TWA ppm: 100.0		
National Fire Protection Agency		
2 Health 2 Fire		
0 Reactive Oth	er	
Department of Transportation Shipping Informat	ion	
Proper Shipping Name: Combustible liquids, n.		
	fication: NA199	3
Packaging Group: PG III		
Contains: ethyl hexanol, petroleum distillate	•	umber: 27
	•	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R	•	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None	esponse Guide N	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None Toxic Substances Control Act (TSCA), 40 CFR 26	esponse Guide N 1	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None Foxic Substances Control Act (TSCA), 40 CFR 26 This product (or components if product is a m	esponse Guide N 1	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None Toxic Substances Control Act (TSCA), 40 CFR 26	esponse Guide N 1	umber: 27
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.	esponse Guide N <u>1</u> ixture) is in	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached	esponse Guide N <u>1</u> ixture) is in	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.	esponse Guide N <u>1</u> ixture) is in	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None Foxic Substances Control Act (TSCA), 40 CFR 26 This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached safety data sheet for this product. 	esponse Guide N 1 ixture) is in to the material	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached safety data sheet for this product.  While UNICHEM INTERNATIONAL believes that the	esponse Guide N 1 ixture) is in to the material above data is	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached safety data sheet for this product.  While UNICHEM INTERNATIONAL believes that the correct, UNICHEM INTERNATIONAL expressly disc	esponse Guide N <u>1</u> ixture) is in to the material above data is laims liability	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Toxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached safety data sheet for this product.  While UNICHEM INTERNATIONAL believes that the correct, UNICHEM INTERNATIONAL expressly disc for any loss or injury arising out of the use	esponse Guide N <u>1</u> ixture) is in to the material above data is laims liability of this	
Contains: ethyl hexanol, petroleum distillate Hazardous Substance RQ: *NONE* Emergency R Labels: None <u>Foxic Substances Control Act (TSCA), 40 CFR 26</u> This product (or components if product is a m compliance with TSCA.  Section 10 information is to remain attached safety data sheet for this product.  While UNICHEM INTERNATIONAL believes that the correct, UNICHEM INTERNATIONAL expressly disc	esponse Guide N <u>1</u> ixture) is in to the material above data is laims liability of this	

MATERIAL SAFETY DATA SHEET PAGE 1 Product Name: TECHNI-HIB 370 Section: 01 PRODUCT IDENTIFICATION \_\_\_\_ Emergency Telephone UNICHEM INTERNATIONAL INC. 505-393-7751 P.O. BOX 1499 Previous Version Date 9/07/93 707 N. LEECH 9/21/93 Date Prepared HOBBS, NM 88241-1499 Version: 0000004 Product Name: TECHNI-HIB 370 Trade Name: Corrosion Inhibitor Chemical Description: Proprietary blend of cationic compounds Section: 02 HAZARDOUS INCREDIENTS Component Name CAS# % Range isopropyl alcohol 00067-63-0 < 25% methanol 00067-56-1 < 5% Section: 03 PHYSICAL DATA Freezing Point: 2 Deg.F. Boiling Point, 760 mm Hg: appx 190 Deg.F Specific Gravity(H2O=1) : 0.956 Solubility in water: Complete Appearance and Odor: Clear amber liquid; pungent odor. Section: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 98 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away. Unusual Fire and Explosion Hazards This material is volatile and readily gives off vapors that may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other

Product Name: TECHNI-HIB 370
Section: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED
ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.
Section: 05 HEALTH HAZARD DATA
Effects of Overexposure Eye Contact: the liquid is irritating to the eyes and
produces intense stinging and burning. If not promptly
removed, may cause eye damage.
Skin Contact: repeated or prolonged contact with the skin
may cause irritation and dermatitis.
Inhalation: vapors may cause irritation of the eyes, nose,
and throat. Prolonged exposures may cause nausea,
headache, dizziness, unconsciousness, cardiac depression,
optic complications and death.
Ingestion: can cause burning of the gastrointestinal tract,
nausea, vomiting, bleeding, CNS depression, hemolysis,
blindness and pulmonary damage. Can be fatal.
Chronic Exposure: For methanol, chronic poisoning from
repeated exposure has been manifested by conjunctivitis,
headache, giddiness, sleeplessness, gastric disturbances and failure of vision.
Emergency and First Aid Procedures
SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

#### EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. If lower and upper lids occasionally. Get medical attention.

#### INHALATION

Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

Section: 06 REACTIVITY DATA

Stable (Y=Yes/N=No): Y

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MATERIAL SAFE	TY DATA SHEET	PAGE 3
Product Name: TECHNI-HIB 370		
Section: 06 REACTIVITY DATA	CONTINUED	
Stability Conditions to Avoid None known.		
Incompatibility (Materials to Avoid)		
Avoid contact with strong oxidizing and strong mineral acids.	agents, strong alkalles,	
Hazardous Decomposition Products		
Thermal decomposition or combustion a carbon monoxide and carbon dioxide.	may produce smoke,	
Hazardous Polymerization May Occur(Y=	Yes/N=No): N	
Hazardous Polymerization Condition	s to Avoid	
None		
Section: 07 SPILL OR LEAK PROCEDURES		· · · · · · · · · · · · · · · · · · ·
Steps to be Taken if Material is Relea		
Eliminate sources of ignition. Person personal protective equipment should	-	
of spill until clean-up has been com		
of spill if possible to do so without		
ial from entering sewers or watercour		
ventilation. Contain spilled material Recover undamaged and minimally conta		
reuse or reclamation. Place all colle		
absorbents into DOT approved contained	—	
Advise authorities. If this product		
<pre>substance (see Section 10), notify t)</pre>		
National Response Center. Additional	-	
to SARA Section 302/304 (40 CFR 355)	may also be required.	
Waste Disposal Method		
Treatment, storage, transportation and	-	
accordance with EPA or State regulat	-	
the Resource Conservation and Recover	ry Act (40 CFR 260-271).	
Section: 08 SPECIAL PROTECTIVE INFORMATION		
Respiratory Protection		
If workplace exposure limit(s) of pro	oduct or any component	
is exceeded, an NIOSH/MSHA approved a		
is advised in absence of proper envir		
regulations also permit other NIOSH/N	-	
(negative pressure organic vapor type		
conditions. Engineering or administra	ative controls should	
be implemented to reduce exposure.		
Ventilation		
The use of mechanical dilution venti	lation is recommended	

Jase: TECHNI-HIB 370

## Section: 08 SPECIAL PROTECTIVE INFORMATION CONTINUED

whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

### Protective Gloves

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

### Eye Protection

Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Equipment

Eye wash and safety shower

Section: 09 SPECIAL PRECAUTIONS

## Precautions to be Taken in Handling and Storing

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.

## Other Precautions

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes. FOR INDUSTRIAL USE ONLY

Section: 10 REGULATORY INFORMATION

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Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III

## Section 302/304-Extremely Hazardous Substances (40 CFR 355)

SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). These values are subject to change and the

regulations should be consulted to verify current statutory requirements. Components present in this product at a level which could require reporting under the statute are: $\frac{Component Name}{**NORE**} \qquad FQ TFQ & Range**NORE** Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)The Superfund Amendments and Reauthorization Act (SARA) mayrequire submission of reports (chemical list, MSDS, Tier I &Tier II) to the State Emergency Response Commission, LocalEmergency Response Committee and the local fire department.The SARA physical and health hazards related to this productare:X Acute Health Hazard$	Product Name: TECHNI-HIB 370	
requirements. Components present in this product at a level which could require reporting under the statute are: Component Name **NONE** Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370) The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are: X Acute Health Hazard Sudden Release of Pressure X Fire X Chronic Health Hazard Section 313-List of Toxic Chemicals (40 CFR 372) This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDS that are copied and distributed for this material. Component Name methanol CERCLA, 40 CFR 261 AND 302 The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.) Component Name isopropyl alcohol TMA pgm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0 methanol TMA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin: National Fire Protection Agency 2 Health <u>3</u> Fire	Section: 10 REGULATORY INFORMATION	CONTINUED
**NONE**         Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)         The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # 1 Range 00067-56-1 < 5%	requirements. Components present in this prod	uct at a level which
The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard       Sudden Release of Pressure       X Fire         X Acute Health Hazard       Reactive       Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name       CAS #       Range         methanol       CAS #       Range         CERCLA, 40 CFR 261 AND 302       The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Name       CAS #       CERCLA RQ 00067-56-1       5000         OSHA Exposure Limits       Component Name       CAS #       CERCLA RQ 00067-56-1       5000         OSHA Exposure Limits       Component Name       CAS #		RQ TPQ & Range
X       Chronic Health Hazard       Reactive         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS # Stange         methanol       00067-56-1 < 53	The Superfund Amendments and Reauth require submission of reports (chem Tier II) to the State Emergency Resp Emergency Response Committee and the The SARA physical and health hazards	orization Act (SARA) may ical list, MSDS, Tier I & ponse Commission, Local e local fire department.
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # & Range 00067-56-1 < 5%		
CERCLA, 40 CFR 261 AND 302         The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Name methanol       CAS # CERCLA RQ 00067-56-1       CERCLA RQ 5000         OSHA Exposure Limits       Component Name isopropyl alcohol       500.0 STEL ppm: 500.0 STEL MG/M3: 1225.0         TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin:       National Fire Protection Agency         2 Health       3 Fire	(40 CFR 372). This information shoul MSDSs that are copied and distribute Component Name	Id be included in all ed for this material. <u>CAS # % Range</u>
The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Name methanol       CAS # CERCLA RQ 00067-56-1         OSHA Exposure Limits         Component Name isopropyl alcohol         TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0 methanol         TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin:         National Fire Protection Agency         2 Health       3 Fire	methanol	00067-56-1 < 5%
methanol00067-56-15000OSHA Exposure LimitsComponent Name isopropyl alcoholTWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0methanolTWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin:National Fire Protection Agency2 Health3 Fire	The Comprehensive Environmental Resp Liability Act of 1980 (CERCLA) requins National Response Center 1-800-424-6 Hazardous Substances equal to or gree quantities (RQs) listed in 40CFR 302 pounds for the component and not the (These values are subject to change	ires notification of the 3802 of any release of a eater than the reportable 2.4. Values are given in e mixture, if applicable. and the regulations
Component Name         isopropyl alcohol         TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0         methanol         TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin:         National Fire Protection Agency         2 Health       3 Fire		
isopropyl alcohol TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0 methanol TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin: National Fire Protection Agency <u>2</u> Health <u>3</u> Fire		
TWA ppm:400.0 TWA MG/M3:980.0 STEL ppm:500.0 STEL MG/M3:1225.0methanolTWA ppm:200.0 TWA MG/M3:260.0 STEL ppm:250.0 STEL MG/M3:325.0 Skin:National Fire Protection Agency2 Health3 Fire		
TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin:         National Fire Protection Agency         2 Health       3 Fire	TWA ppm: 400.0 TWA MG/M3: 980.0 STH	SL ppm: 500.0 STEL MG/M3: 1225.0
<u>2</u> Health <u>3</u> Fire		EL ppm: 250.0 STEL MG/M3: 325.0 Skin: X
<u>2</u> Health <u>3</u> Fire	National Fire Protection Agency	
0 Reactive Other	2 Health	} Fire
	<u>O</u> Reactive	Other

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Product Name: TECHNI-HIB 370

safety data sheet for this product.

While UNICHEM INTERNATIONAL believes that the above data is correct, UNICHEM INTERNATIONAL expressly disclaims liability

for any loss or injury arising out of the use of this information or the use of any materials designated.

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END OF MSDS

Section:	10 REGULATORY	INFORMATION	CONTINUED		
Departm	ent of Transpo	rtation Shipp	ng Information		
Proper	Shipping Name	Flammable li	quids, n.o.s.		
Hazard	Class: 3		Identification	: UN1993	
Packag:	ing Group: PG	III			
Contair	ns: methanol,	isopropyl alco	hol		
Hazardo	ous Substance	RQ: 100000#	Emergency Response	Guide Number:	27
Labels	: Flammable lie	Tuid			
Toxic S	ubstances Conti	Col Act (TSCA)	40 CFR 261		
		^	duct is a mixture)	is in	
. –	ance with TSCA	-			
Sectior	n 10 informatio	on is to remai	n attached to the m	aterial	

HER ST , 38 TRODO FR MUTCHEW HOTOMUTURE - 202 (232 2580 10 333280). HATBRIAL SAFETY DATA SHEET PAGE 1 Product Name: TECHNI-HIB 756 \_\_\_\_\_\_\_ Section: 01 PRODUCT IDENTIFICATION 505-393-7751 Emergency Telephone UNICHEM Previous Version Date A DIVISION OF BJ SERVICES CO. 707 N. LEECH Date Prepared 10/01/96 HOBBS, NM 88241-1499 Version: 0000003 Product Name: TECHNI-HIB 756 Trade Name: Scale Inhibitor Chemical Description: Proprietary blend of organic phosphonates. Section: 02 HAZARDOUS INGREDIENTS . \_\_\_\_\_\_ Component Name CAS# \* Range 07647-01-0 < hydrochloric acid 28 phosphoric acid 07664-38-2 18 < Section: 03 PHYSICAL DATA Freezing Point: 2 Deg.F. Specific Gravity(H2O=1) : 1.180 Solubility in water: Soluble Appearance and Odor: Amber liquid; alcohol odor. Section: 04 FIRE AND EXPLOSION HAZARD DATA WILL NOT FLASH Flash Point (Test Method): Extinguishing Media Material is not combustible. Use extinguishing agent appropriate for surrounding fire. Keep containers cool. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Fire fighters should wear self-contained breathing apparatus with a full facepiece operated in the pressure-demand or positive-pressure mode. Unusual Fire and Explosion Hazards None Section: 05 HEALTH HAZARD DATA Effects of Overexposure Eye Contact: may irritate or burn the eyes. May damage the eyes if not promptly removed. Skin Contact: may cause irritation upon brief contact. May

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MATERIAL SAFETY DATA SHEET	PAGE	2
Product Name: TECHNI-HIB 756		
Section: 05 HEALTH HAZARD DATA <u>CONTINUED</u>		• •
cause burns if not promptly removed.		•
Inhalation: mists or vapors may irritate mucuous membranes.		
Ingestion: aspiration into the lungs may cause lung damage and may be fatal.		
Routes of entry: eye and skin contact or inhalation.		
Emergency and First Aid Procedures		
SKIN		
Wash with soap and water. Remove contaminated clothing and		
launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.		
accention if fedness of filltacion develops.		
BYBS		
Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally.		
Get medical attention.		
T NTIN # 947 AN		
INHALATION Remove victim to fresh air. Give artificial respiration if		
not breathing. If breathing is difficult, administer oxygen.		
Keep person warm, quiet and get medical attention.		
INGESTION		
<b>Call</b> a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or		
poison control center. Never give anything by mouth to an		
unconscious person.		
Section: 06 REACTIVITY DATA		
<u>Stable (Y=Yes/N=No): Y</u>	•	
Stability Conditions to Avoid		
None known.		
Incompatibility (Materials to Avoid)		
Avoid contact with strong oxidizing agents.		
Hazardous Decomposition Products		
Thermal decomposition or combustion may produce smoke,		
carbon monoxide and carbon dioxide		
<u>Hazardous Polymerization May Occur(Y=Yes/N=No): N</u>		
Hazardous Polymerization Conditions to Avoid		
None		
Section: 07 SPILL OR LEAK PROCEDURES		
Steps to be Taken if Material is Released or Spilled		
ARTHS IN TH ANNOU IT WHARTER IS UNITHBER AT ANTITER		

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MATERIAL SAPETY DATA SHEET	Page	3
Product Name: TECHNI-HIB 756		
Section: 07 SPILL OR LEAK PROCEDURES <u>CONTINUED</u>		
<pre>Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled material with sand or earth. Recovered undamaged or minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers. Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required.</pre>		
Waste Disposal Method Treatment, storage, Transportation and disposal must be in accordance with BPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271).		
Section: 08 SPECIAL PROTECTIVE INFORMATION		
Respiratory Protection If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved supplied air respirator is advised in absence of proper environmental controls. OSHA regulations permit other NIOSH/MSHA approved respirators (negative pressure acid gas cartridge type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposures.	<u>.</u>	
Ventilation The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).		
Protective Gloves Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)		
Eve Protection Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended. <u>Other Protective Equipment</u> Eye wash and safety shower		
Section: 09 SPECIAL FRECAUTIONS		
Precautions to be Taken in Handling and Storing		

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	TY DATA SHERT	PAGE 4
Product Name: TECHNI-HIB 756		
Section: 09 SPECIAL PRECAUTIONS	CONTINUED	
Avoid contact with eyes, skin or clob vapors or mist. Keep away from heat, and never use a cutting torch on or r empty) or explosion may result. Vapor away from the work site and ignite.	thing. Avoid breathing sparks, and open flames near container (even	· · · · · · · · · · · · · · · · · · ·
Other Precautions Containers of this material may be has Since emptied containers retain produ- liquid, and/or solid), all hazard pre- data sheet must be observed. Do not t marked container. Do not use pressure Do not cut, heat, weld, or expose con- other sources of ignition. Keep conta- adequate ventilation. Wash thoroughly Containers should be grounded and bom container(s) when being emptied. Cont washed out and used for other purpose FOR INDUSTRIAL USE ONLY	act residues (vapor, ecautions given in the transfer to improperly to empty container. Atainers to flame or timer closed. Use with after handling. aded to receiving tainers should not be	
Section: 10 REGULATORY INFORMATION		
Superfund Amendments and Reauthorizati		
Section 302/304-Extremely Hazardous SARA requires emergency planning ba Quantities (TPQs) and release repor Quantities (RQs) in 40 CPR 355 (use and 312). These values are subject regulations should be consulted to requirements. Components present in this produced could require reporting under the st	sed on Threshold Planning ting based on Reportable d for SARA 302, 304, 311 to change and the verify current statutory uct at a level which	
<u>Component Name</u> **NONE**	<u>RO</u> TPO	<u> 8 Range</u>
Section 311/312 Chemical Inventory Re The Superfund Amendments and Reauthor require submission c. repoles (chemi Tier II) to the State Emergency Resp Emergency Response Committee and the The SARA physical and health hazards are:	orization Act (SARA) may ical 'st MSDS, Tier I & pong_ Commission, Local e local fire department.	370)
	_ Sudden Release of Fressure _ Reactive	_ Fire
Section 313-List of Toxic Chemicals This product contains the following		
to the reporting requirements of Sec		

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	ATORY INFORMATION	CONTINUED	
Emerciency Pla		ight-to-Know Act of 1986	
	This information show		
	e copied and distribut		
Component Nam		<u>CAS_</u> #	
hydrochloric	acid	07647-01-0	< 2%
phosphoric ac	d	07664-38-2	< 13
	0.61 NW 303		
CERCLA, 40 CPR		ponse, Compensation, and	
-		ires notification of the	
		8802 of any release of a	
		eater than the reportable	
		2.4. Values are given in	
		e mixture, if applicable.	
	are subject to change		
	sulted to verify curre		
Component Nam	<u>e</u>	<u>CAS #</u> C	<u>ERCLA RO</u>
hydrochloric a	acid	07647-01-0	5000
phosphoric ac:	iđ	07664-38-2	5000
SHA Exposure Lit	mits		······································
Component Name			
hydrochloric ac:	ið		
Coiling ppm.	5 0 Coiling MG/MR	7.0	
	5.0 Ceiling MG/M3	7.0	
	-		3.0
Ceiling ppm: phosphoric acid		7.0 Stel Mg/M3:	3.0
phosphoric acid	TWA MG/M3: 1.0		3.0
phosphoric acid	TWA MG/M3: 1.0 otection Agency		3.0
phosphoric acid ational Fire Pro	TWA MG/M3: 1.0 Dtection Agency	STEL MG/M3:	3.0
phosphoric acid ational Fire Pro 2 Health 0 Reactive	TWA MG/M3: 1.0	STEL MG/M3: O Fire ACID Other	3.0
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra	TWA MG/M3: 1.0 otection Agency ansportation Shipping	STEL MG/M3: O Fire ACID Other Information	3.0
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquid	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s.	3.0
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: 8	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquio 8	STEL MG/M3: O Fire ACID Other Information	3.0
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: 8 Packaging Group:	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquid 8 : PG II	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760	3.0
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: S Packaging Group: Contains: phosph	TWA MG/M3: 1.0 otection Agency ansportation Shipping 1 Name: Corrosive liquid 3 : PG II honic acid, hydrochlor:	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760 ic acid	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: S Packaging Group: Contains: phosph Hazardous Subs'	TWA MG/M3: 1.0 otection Agency ansportation Shipping 1 Name: Corrosive liquid 8 : PG II honic acid, hydrochlor: ance RQ: 250000#	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: S Packaging Group: Contains: phosph Hazardous Subs'	TWA MG/M3: 1.0 otection Agency ansportation Shipping 1 Name: Corrosive liquid 8 : PG II honic acid, hydrochlor: ance RQ: 250000#	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760 ic acid	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: E Packaging Group: Contains: phosph Hazardous Subs'	TWA MG/M3: 1.0 otection Agency ansportation Shipping 1 Name: Corrosive liquid 8 : PG II honic acid, hydrochlor: ance RQ: 250000#	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760 ic acid	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: S Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv	TWA MG/M3: 1.0 otection Agency ansportation Shipping 1 Name: Corrosive liquing 8 : PG II honic acid, hydrochlor: ance RQ: 250000# Emo	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760 ic acid ergency Response Guide Number	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquid s : PG II honic acid, hydrochlor: ance RQ: 250000# Emeryce Control Act (TSCA), 44	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. Identification: UN1760 ic acid ergency Response Guide Number 0 CFR 261	
phosphoric acid ational Fire Pro 2 Health 0 Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv Dxic Substances This product, or	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquid s : PG II honic acid, hydrochlor: ance RQ: 250000# Emo ve <u>Control Act (TSCA), 40</u> r components if product	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. <u>Identification</u> : UN1760 ic acid ergency Response Guide Number <u>0 CFR 261</u> t is a mixture, is/are	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv oxic Substances This product, or	TWA MG/M3: 1.0 otection Agency ansportation Shipping Name: Corrosive liquid s : PG II honic acid, hydrochlor: ance RQ: 250000# Emo ve <u>Control Act (TSCA), 40</u> r components if product	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. Identification: UN1760 ic acid ergency Response Guide Number 0 CFR 261	
phosphoric acid ational Fire Pro <u>2</u> Health <u>0</u> Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv Oxic Substances This product, on listed on the To	TWA MG/M3: 1.0 otection Agency ansportation Shipping : Name: Corrosive liquid 8 : PG II nonic acid, hydrochlor: ance RQ: 250000# Emeryce Control Act (TSCA), 44 r components if product oxic Substances Control	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. Identification: UN1760 ic acid ergency Response Guide Number <u>0 CFR 261</u> t is a mixture, is/are 1 Act (TSCA) inventory.	
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phosphoric acid ational Fire Pro 2 Health 0 Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv oxic Substances This product, on listed on the To  Section 10 infor	TWA MG/M3: 1.0 otection Agency ansportation Shipping : Name: Corrosive liquid 8 : PG II nonic acid, hydrochlor: ance RQ: 250000# Emeryce Control Act (TSCA), 44 r components if product oxic Substances Control	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. Identification: UN1760 ic acid ergency Response Guide Number <u>0 CFR 261</u> t is a mixture, is/are 1 Act (TSCA) inventory.	
phosphoric acid ational Fire Pro 2 Health 0 Reactive epartment of Tra Proper Shipping Hazard Class: & Packaging Group: Contains: phosph Hazardous Subs': Labels: Corrosiv Date Substances This product, on Listed on the To Section 10 infor safety data shee	TWA MG/M3: 1.0 otection Agency ansportation Shipping : Name: Corrosive liquid 3 : PG II nonic acid, hydrochlor: ance RQ: 250000# Emery Control Act (TSCA), 44 r components if product oxic Substances Control tration is to remain at	STEL MG/M3: <u>0</u> Fire <u>ACID</u> Other <u>Information</u> ds, n.o.s. Identification: UN1760 ic acid ergency Response Guide Number 0 CFR 261 t is a mixture, is/are 1 Act (TSCA) inventory. ttached to the material	

MATERIAL SAFETY DATA SHEET

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MATERIAL SAFETY DATA SHEET	PAGE 6
Product Name: TECHNI-HIB 756	
Section: 10 REGULATORY INFORMATION CONTINUED	
arising out of the use of this information or the use of any materials designated.	· · · · · · · · · · · · · · · · · · ·

END OF MSDS

MER ST. SO TRISTER MULTINE , SAS 232 2580 (N 332280). MATBRIAL SAFETY DATA SHEET PAGE 7 TECHNI-HIB 756 Product Name: -----\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Section: 11 LABEL INFORMATION \*\*\*\*\*\*\* \*\*\*\*\*\* DANGER! CAUSES SEVERE EYE AND SKIN BURNS MAY BE HARMFUL IF SWALLOWED OR INHALED \_\_\_\_ ----Do not get in eyes, on skin or on clothing. Avoid breathing vapors. Keep container closed. Use with adaquate ventilation. Wash thoroughly after handling. FIRST AID IN CASE OF SWALLOWING: Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or a poison control center. Neve. give anything by mouth to an unconscious person. IN CASE OF CONTACT: Immediately flush eyes and skin with plenty of water for 15 minutes while removing contaminated clothing and shoes. Discard contaminated shoes. Launder clothing before reuse. Call a physician. IN CASE OF INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. CONTAINER HANDLING AND STORAGE: Keep container tightly closed. Keep closure up to avoid leakage. Drum must not be washed out or used for other purposes. Replace closure after each withdrawal. Do not use pressure to empty drum. Do not transfer this material to improperly marked container. Keep out of reach of children. IN CASE OF SPILLAGE: Absorb spill with inert materials (e.g., dry sand or earth). Place in a chemical waste container. Flush spill area with water spray. For large spill, dike for later disposal. CONTAINER DISPOSAL; This container will contain traces of hazardous material when emptied. Do not cut or weld on empty container. Follow local, state and federal regulations for disposal.

. MATERIAL SAP	FETY DATA SHEET	PAGE 1
Product Name: TECHNI-SPERSE 251		
ection: O1 PRODUCT IDENTIFICATION		
707 N. LEECH	Emergency Telephone 505-393 Previous Version Date 8/	-7751
Product Name: TECHNI-SPERSE 251	Trade Name: Paraf	fin Dispersant
Chemical Description: Proprietary blend of inhibitors ar	d surfactants in water.	
ection: 02 HAZARDOUS INGREDIENTS		
Component Name methanol isopropyl alcohol 2-butoxyethanol heavy aromatic naphtha xylene	<u>CAS#</u> <u>%</u> 00067-56-1 < 2 00067-63-0 < 1 00111-76-2 < 64741-68-0 < 01330-20-7 <	Range 20% 15% 5% 5%
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : .960 Appearance and Odor: Clear, amber	liquid; pungent odor.	•.
ection: 04 FIRE AND EXPLOSION HAZA		
Flash Point (Test Method): 98 D Extinguishing Media CO2, dry chemical, water spray or keep container cool. Isolate "fu Contain fire fighting lighted for	fog, or foam. Use water to el" supply from fire.	
Special Fire Fighting Procedures Do not enter confined fire space protective equipment including NI breathing apparatus with full fac positive pressure demand mode. Do of water or foam into hot, burnin splattering and increase fire int to a safe area. Keep unnecessary	OSH approved self-contained epiece operated in the not inject a solid stream g pools; this may cause ensity. Evacuate personnel people away.	
Unusual Fire and Explosion Hazards This material is volatile and rea may travel along the ground or be ignited by pilot lights, other fl	dily gives off vapors that moved by ventilation and	

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Product Name: TECHNI-SPERSE 251

## Section: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED

smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

#### Section: 05 HEALTH HAZARD DATA

Effects of Overexposure
Eye Contact: may cause moderate irritation, including
burning sensation, tearing, redness, swelling and
blurred vision. Can cause corneal injury if not promptly treated.
Skin Contact: may produce skin irritation, defatting and
dermatitis. Frequent or widespread contact may result in the absorption of potentially harmful amounts, with possible injury to kidneys, liver, blood and/or bone
marrow.
Inhalation: can cause nasal and respiratory irritation, coughing, shortness of breath, dizziness, drowsiness, intoxication, weakness, fatigue, headache, numbness, tremors, impaired memory, nausea, lack of appetite, vomiting, collapse, unconsciousness, optic
complications, cardiac depression and coma. Moderate liver enlargement, kidney enlargement and even death is possible if exposure is not controlled.
Ingestion: can cause gastrointestinal irritation, acidosis, nausea, vomiting, headache, diarrhea, weakness,
incoordination, dizziness, drowsiness, mental confusion, slurred speech, stupor,unconsciousness, ocular toxicity ranging from diminished visual capacity to complete
blindness, and death.

Chronic Overexposure: can cause damage to liver, kidneys, eyes, lungs, blood, spleen, testis, brain and nervous system.

Emergency and First Aid Procedures

# SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

## EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

### INHALATION

Remove victim to fresh air. Give artificial respiration if

Product Name: TECHNI-SPERSE 2	
Section: 05 HEALTH HAZARD DATA	CONTINUED
not breathing. If breathing Keep person warm, quiet and	is difficult, administer oxygen. get medical attention.
INGESTION	
Call a physician immediately	. Give victim a glass of water.
	s instructed by a physician or give anything by mouth to an
unconscious person.	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
ection: 06 REACTIVITY DATA	
Stable (Y=Yes/N=No): Y	··
Stability Conditions to Avoi	d
None known.	
Incompatibility (Materials to A	
Avoid contact with strong oxid. and strong mineral acids.	izing agents, strong alkalies,
and scrong mineral acids.	
Hazardous Decomposition Product:	
Thermal decomposition or combus carbon monoxide and carbon dio:	
Hazardous Polymerization May Oco	cur(Y=Yes/N=No): N
Hazardous Polymerization Cond	ditions to huoid
None	
ection: 07 SPILL OR LEAK PROCEDU	
Steps to be Taken if Material is	s Released or Spilled
Eliminate sources of ignition.	Persons not wearing suitable
personal protective equipment s of spill until clean-up has been	
of spill if possible t do so w	without 12ard. Prevent mater-
ial from entering sewers or wat ventilation. Contain spilled ma	-
Recover undamaged and minimally	
reuse or reclamation. Place all	l collected material and spill
absorbents into DOT approved co Advise authorities. If this pro	
substance (see Section 10), not	tify the U.S.EPA and/or the
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National Response Center. Addit	R 355) may also be reduired.
National Response Center. Addit to SARA Section 302/304 (40 CFR	R 355) may also be required.
National Response Center. Addit	

**TECHNI-SPERSE 251** Product Name: Section: 07 SPILL OR LEAK PROCEDURES CONTINUED Section: 08 SPECIAL PROTECTIVE INFORMATION Respiratory Protection If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure. Ventilation The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's). Protective Gloves Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC) Eye Protection E Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended. Other Protective Equipment Eye wash and safety shower Section: 09 SPECIAL PRECAUTIONS Precautions to be Taken in Handling and Storing Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite. Other Precautions Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with

adequate ventilation. Wash thoroughly after handling.

oduct Name: TECHNI-SPERSE 251		
ction: 09 SPECIAL PRECAUTIONS	CONTINUED	
Containers should be grounded and be container(s) when being emptied. Con washed out and used for other purpos FOR INDUSTRIAL USE ONLY	ntainers shculd not be	
ction: 10 REGULATORY INFORMATION		
uperfund Amendments and Reauthorizat	tion Act Of 1986(SARA) Title III	
Section 302/304-Extremely Hazardous SARA requires emergency planning b Quantities (TPQs) and release repo Quantities (RQs) in 40 CFR 355 (us and 312). These values are subject regulations should be consulted to requirements. Components present in this pro could require reporting under the	based on Threshold Planning orting based on Reportable and for SARA 302, 304, 311 to change and the overify current statutory oduct at a level which	
Component Name	RQ TPQ % Rang	le
The Superfund Amendments and Reaut require submission of reports (che Tier II) to the State Emergency Re Emergency Response Committee and t The SARA physical and health hazar are:	mical list, MSDS, Tier I & sponse Commission, Local he local fire department.	
$\frac{X}{2}$ Acute Health Hazard $\frac{X}{2}$ Chronic Health Hazard	_ Sudden Release of Pressure X Fir _ Reactive	e
Section 313-List of Toxic Chemicals This product contains the followin to the rejorting requirements of S Emergency Planning and Community R (40 CFR 372). This information sho MSDSs that are copied and distribut	ng toxic chemicals subject Section 313 of the Right-to-Know Act of 1986 buld re included in all	
<u>Component Name</u> methanol 2-butoxyethanol xylene	CAS #% Range00067-56-1<	2
CERCLA, 40 CFR 261 AND 302 The Comprehensive Environmental Re Liability Act of 1980 (CERCLA) reg National Response Center 1-800-424 Hazardous Substances equal to or g quantities (RQs) listed in 40CFR 3	puires notification of the 1-8802 of any release of a preater than the reportable	

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Product Name: TECHNI-SPERSE 251

pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.) <u>Component Name</u> methanol <u>CAS #</u> <u>CERC</u> 00067-56-1	
	LA RO
	5000
xylene 01330-20-7	1000
SHA Exposure Limits	
Component Name	
	0 0 1
TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325. isopropyl alcohol	.0 Skin:
TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.	.0
2-butoxyethanol	
TWA ppm: 25.0 TWA MG/M3: 120.0	Skin:
xylene	
TWA ppm: 100.0 TWA MG/M3: 435.0 STEL ppm: 150.0 STEL MG/M3: 655.	. O
ational Fire Protection Agency	
2 Health 3 Fire	· .
0 Reactive Other	
epartment of Transportation Shipping Information Proper Shipping Name: Flammable liquid; n.o.s.	
Hazard Class: Flammable liquid Identification: UN 1993	
This product contains: xylene, methanol, isopropyl alcohol	
<pre>iazardous Substance RQ: 20000# Emergency Response Guide Number: 2 Labels: Flammable liquid</pre>	7
Dxic Substances Control Act (TSCA), 40 CFR 261 This product (or components if product is a mixture) is in	
compliance with TSCA.	
Section 10 information is to remain attached to the material	
afety data sheet for this product.	
Thile UNICHEM INTERNATIONAL belie, es that the 'ove data is	
correct, UNICHEM INTERNATIONAL expressly disclaims liability	
for any loss or injury arising out of the use of this information or the use of any materials designated.	
END OF MSDS	

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202 393 2280 10 3932807 - 민군 MATERIAL SAFELT DAIR JUDGI LAUN TECHNI-SOLV 158 Product Name: \_\_\_\_\_ Section: 01 PRODUCT IDENTIFICATION Emergency Telephone 505-393-7751 UNICHEM A DIVISION OF BJ SERVICES CO. Previous Version Date 10/01/96 12/10/97 Date Prepared 707 N. LEECH Version: 0000004 HOBBS, NM 88241-1499 Product Name: TECHNI-SOLV 158 Trade Name: Paraffin Solvent Chemical Description: Proprietary blend of nonionic dispersants in xylene. \_\_\_\_ Section: 02 HAZARDOUS INGRETIENTS CAS# % Range Component Name 001330-20-7 < 96% xylene Section: 03 PHYSICAL DATA \_\_\_\_\_ Freezing Point: - 40 Deg.F. Boiling Point, 760 mm Hg: 137 Deg.F Specific Gravity(H2O=1) : 0.876 Solubility in water: Insoluble Appearance and Odor: Clear, yellow liquid; aromatic odor. Section: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 78 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressy a demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away. Unusual Fire and Explosion Hazards Treat as an extremely flammable liquid. This material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other

AFK 21 38 11-41 FR UNICHEM ACCOUNTING 505 393 5280 TO 393	5807 P.03
MATERIAL SAFETY DATA SHER	
Product Name: TECHNI-SOLV 158	
Section: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED	
ignition sources at locations distant from material handling	ſ
point. Never use welding or cutting torch on or near drum	
(even empty) because product (even just residue) can ignite	
explosively. Containers may explode from internal pressure	
if confined to fire. Keep containers cool. Keep unnecessary	
people away.	
Section: 05 HEALTH HAZARD DATA	
MR. M. L.	
Bffects of Overexposure	
Rye Contact: liquid and mist will cause severe irritation,	
redness, tearing, and blurred vision.	
Skin Contact: prolonged or repeated contact may cause	
moderate irritation, defatting, dermatitis.	
Inhalation: vapors and misc. irritate mucous membranes.	
Inhalation of higher concentrations may cause dizziness, weakness, fatigue, headaches, nausea, vomiting, and	
coma. Inhalation of very high concentrations or	
prolonged exposure may cause unconsciousness or death.	
Ingestion: can cause gastrointestinal irritation, nausea,	
vomiting, and diarrhea. If vomiting occurs	
spontaneously, do not allow vomitus to be breathed into	
the lungs as even a small quantity in the lungs may	
result in chemical pneumonitis and pulmonary	
edema/hemorrhage.	
Chronic effects of exposure: prolonged or repeated exposure	
to high concentrations may cause neural dysfunction.	
Medical conditions generally aggravated by exposure: pre- existing eye, skin and respiratory disorders.	
Target Organs: eyes, skin, lungs, and CNS.	
Emergency and First Aid Procedures	

### SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

#### EYES

Flush eyes immediately with large amounts of water for at least 1. minutes. Lift lower and upper lids occasionally. Get medical attention.

#### INHALATION

Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

## INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or

HPR 21 38 11.41 FR UNICHEM HUUUUN!ING	545 393 5280 TO 3935807	P,04
MATERIAL SAFETY		PAGE 3
Product Name: TECHNI-SOLV 158		
Section: 05 HEALTH HAZARD DATA		
poison control center. Never give anyt unconscious person.	-	
Section: 06 REACTIVITY DATA		
Stable (Y=Yes/N=No): Y		
Stability Conditions to Avoid None known.		
Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agent		
and strong mineral acids.		
Hazardous Decomposition Products Thermal decomposition or combustion may p carbon monoxide and carbon dioxide.	produce smoke,	<u>u,</u>
Hazardous Polymerization May Occur(Y=Yes/N	<u>n=no): N</u>	
<u>Hazardous Polymerization Conditions to</u> None	Avoid	
Section: 07 SPILL OR LEAK PROCEDURES		
Steps to be Taken if Material is Released		
Eliminate sources of ignition. Persons no	ot wearing suitable	
personal protective equipment should be a of spill until clean-up has been complete		
of spill if possible to do so without has		
ial from entering sewers or watercourses.	. Provide adequate	
ventilation. Contain spilled materials with		
Recover undamaged and minimally contamina reuse or reclamation. Place all collected		
absorbents into DOT approved containers.	a material and spiri	
Advise authorities. If this product is an		
substance (see Section 10), notify the U.		
National Response Center. Additional noti to SARA Section 302/304 (40 CFF 355) may		
Waste Disposal Method		
Treatment, storage, transportation and di	-	
accordance with EPA or State regulations the Resource Conservation and Recovery Ac		
Section: 08 SPECIAL PROTECTIVE INFORMATION		
a de la maistra de la construcción de la construcci		
If workplace exposure limit(s) of product		

	T PAGE 4
roduct Name: TRCHMI-SOLV 158	
······································	
ection: 08 SPECIAL PROTECTIVE INFORMATION CONTINUED	
is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.	
Ventilation	
The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).	
Protective Gloves	
Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)	
Tye Protection	
Chemical splash goggles or face shield in compliance with	
OSHA regulations is advised; however OSHA regulations also	
permits safety glasses under certain conditions. The use of	
contact lenses is not recommended.	
Other Protective Equipment Eye wash and safety shower	
Eye wash and safety shower	<u></u>
Eye wash and safety shower	
Eye wash and safety shower ection: 09 SPECIAL PRECAUTIONS	
Eye wash and safety shower ection: 09 SPECIAL PRECAUTIONS	
Eye wash and safety shower ection: 09 SPECIAL PRECAUTIONS Precautions to be Taken in Handling and Storing	
Eye wash and safety shower ection: 09 SPECIAL PRECAUTIONS Precautions to be Taken in Handling and Storing Avoid contact with eyes, skin or clothing. Avoid breathing	
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Eye wash and safety shower Eye wash and safety shower Execution: 09 SPECIAL PRECAUTIONS Precautions to be Taken in Handling and Storing Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite. Other Precautions Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all havard precautions given in the data sheet must be observed. Do not transfer to properly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be	
Eye wash and safety shower Exection: 09 SPECIAL PRECAUTIONS Precautions to be Taken in Handling and Storing Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite. Other Precautions Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hezard precautions given in the data sheet must be observed. Do not transfer to properly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving	
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HPR 21 798 11:42 FR UNICHEM ACCOUNTING	505 393 5280 TO 3935807	P.06
	DATA SHEKT	PAGE 5
roduct Name: TECHNI-SOLV 158		
ection: 10 REGULATORY INFORMATION	CONTINUED	
	**********************	
Section 302/304-Extremely Hazardous Sub	stances (40 CFR 355)	
SARA requires emergency planning based		
Quantities (TPQs) and release reportin		
Quantities (RQs) in 40 CPR 355 (used for and 312). These values are subject to	· · · · ·	
regulations should be consulted to ver		
requirements.		
Components present in this product	at a level which	
could require reporting under the state	ite are:	
Consects Name	<b>50 5</b> 0	• -
Component Name **NONE**	<u>Ro</u> <u>TPO</u>	% Range
Section 311/312 Chemical Inventory Report	cting Requirements (40 CFR	370)
The Superfund Amendments and Reauthori:		
require submission of reports (chemical		
Tier II) to the State Emergency Respons		
Emergency Response Committee and the lo The SARA physical and health hazards re		
are:	stated to this product	
<b>416</b> .		
X Acute Health Hazard Su	dden Release of Pressure	X Fire
	eactive	
Section 313-List of Toxic Chemicals (40	) CFR 372)	Mare 117,
This product contains the following too to the reporting requirements of Section	cic chemicals subject	
Emergency Planning and Community Right-		
(40 CFR 372). This information should h	e included in all	
MSDSs that are copied and distributed f		
<u>Component Name</u> xylene		<u>* Range</u>
xyiene	001330-20-7 <	96%
CERCLA, 40 CFR 261 AND 302		
The Comprehensive Environmental Respons	e, Compensation, and	
Liability Act of 1980 (CERCLA) requires	notification of the	
National Response Center 1-800-424-8802	of any release of a	
Hazardous Substances equal to or greate	r than the reportable	
quantities (RQs) listed in 40CFR 302.4	Values are given in	
pounds for the component and not the	xture, if applicable.	
(These values are subject to change and should be consulted to verify current s	the regulations	
	rochentl tängtä:)	
Component Name	CAS # CER	CLA RO
xylene	001330-20-7	
CHA Exposure Limits		
omponent Name ylene		
TWA ppm: 100.0 TWA MG/M3: 435.0 STEL p	DM • 150 0 69787. MC /MC - CA	5 A
	Fur ToA'A STUR MR/M3: 02	<b>.</b>

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MATERIAL SALES	SAFETY	DATA		PAGE 6
Product Name: TECHNI-SOLV 1:	58			
Section: 10 REGULATORY INFORMAT	rion	CONTINUE		
National Fire Protection Agence	<u>X</u>			
2 Health 0 Reactive	<u>3</u> Fi	re Other		
Department of Transportation S	hipping Info	<u>rmati</u> on		
Proper Shipping Name: Flammab Hazard Class: 3 Packaging Group: PG III			on: UN1993	
Contains: xylene Hazardous Substance RQ: 10 Labels: Flammable liquid	4# Bmerge:	ncy Respon	se Guide Number:	128
Toxic Substances Control Act (	<u>TSCA), 40 CF</u>	<u>261</u>		
This product, or components in listed on the Toxic Substance	f product is s Control Act	a mixture : (TSCA) i	, is/are nventory.	
Section 10 information is to : safety data sheet for this pro	remain attach oduct.	ied to the	material	
While UNICHEM believes that the UNICHEM expressly disclaims list arising out of the use of this materials designated.	iability for	any loss	oriniury	
 END OF MSDS				

DATA MATERIAL SAFETY SWEET PAGE 7 TECHNI-SOLV 158 Product Name: Section: 11 LABEL INFORMATION DANGER! FLAMMABLE LIQUID MAY BE HARMFUL IF SWALLOWED OR INHALED MAY CAUSE IRRITATION KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES IN CASE OF FIRE: USE WATER SPRAY, FOAM, DRY CHEMICAL OR CO2 Do not get in eyes, on skin or on clothing. Avoid breathing vapors. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. FIRST AID ========== IN CASE OF SWALLOWING: Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or a poison control center. Never give anything by mouth to an unconscious person. IN CASE OF CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. IN CASE OF INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. CONTAINER HANDLING AND STORAGE: Keep container tightly closed. Keep closure up to avoid leakage. Drum must not be washed out or used for other purposes. Replace closure after each withdrawal. Do not use pressure to empty drum. Do not transfer this material to improperly marked container. Keep out of reach of children. IN CASE OF SPILLAGE: Absorb spill with inert materials (e.g., dry sand or earth). Place in a chemical waste container. Flush spill area with water spray. For large spill, dike for later disposal. CONTAINER DISPOSAL: This container will contain traces of hazardous material when emptied. Do not

cut or weld on empty container. Follow local, state and federal regulations for disposal.

Section: 01 PRODUCT IDENTIFICA	TION
P.O. BOX 1499	Emergency Telephone 505-393-7751 Previous Version Date 4/15/92
707 N. LEECH	Date Prepared 9/21/93
HOBBS, NM 88241-1499	Version: 0000003
Product Name: TECHNI-CLEAN 42	0
Trade Name: Surfactant ·	
Chemical Description: Proprietary blend of water so	luble surfactants
ection: 02 HAZARDOUS INGREDIE	NTS
Component Name	CAS# % Range
methanol	00067-56-1 < 25%
action, 03 DUVGIONI DAMA	
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) :	0.990 Solubility in water: Soluble quid; alcoholic odor.
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION 	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire.
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire.
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir 's	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir s protective equipment includi	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir s protective equipment includi breathing apparatus with ful	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained l facepiece operated in the
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir 's protective equipment includi breathing apparatus with ful positive pressure demand mod	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approved self-contained 1 facepiece operated in the e. Do not inject a solid stream
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Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir · s protective equipment includi breathing apparatus with ful positive pressure demand mod of water or foam into hot, b splattering and increase fir to a safe area. Keep unneces	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained l facepiece operated in the e. Do not inject a solid stream urning pools; this may cause e intensity. Evacuate personnel sary people away.
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir 's protective equipment includi breathing apparatus with ful positive pressure demand mod of water or foam into hot, b splattering and increase fir to a safe area. Keep unneces	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained l facepiece operated in the e. Do not inject a solid stream urning pools; this may cause e intensity. Evacuate personnel sary people away.
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir s protective equipment includi breathing apparatus with ful positive pressure demand mod of water or foam into hot, b splattering and increase fir to a safe area. Keep unneces Unusual Fire and Explosion Ha This material is combustible may release vapors that pose	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained l facepiece operated in the e. Do not inject a solid stream urning pools; this may cause e intensity. Evacuate personnel sary people away. zards and under certain conditions a severe fire hazard. These
Freezing Point: - 1 Deg.F. Specific Gravity(H2O=1) : Appearance and Odor: Amber 1i ection: 04 FIRE AND EXPLOSION Flash Point (Test Method): 1 Extinguishing Media CO2, dry chemical, water spr keep containers cool. Isolat Contain fire fighting liquid Special Fire Tighting Procedu Do not enter confined fir s protective equipment includi breathing apparatus with ful positive pressure demand mod of water or foam into hot, b splattering and increase fir to a safe area. Keep unneces Unusual Fire and Explosion Ha This material is combustible	0.990 Solubility in water: Soluble quid; alcoholic odor. HAZARD DATA 07 Deg.F TCC ay or fog, or foam. Use water to e "fuel" supply from fire. s for proper disposal. res pace without proper personal ng NIOSH approvec self-contained l facepiece operated in the e. Do not inject a solid stream urning pools; this may cause e intensity. Evacuate personnel sary people away. zards and under certain conditions a severe fire hazard. These ground or be moved by

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Product Name: TECHNI-CLEAN 420

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Section: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED

from material handling point. Containers may explode from internal pressure if confined to a fire. Keep unnecessary people away.

#### Section: 05 HEALTH HAZARD DATA

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Effects of Overexposure

Eye Contact: may cause moderate irritation, including burning sensation, tearing, redness or swelling. May cause permanent eye injury, even blindness. Skin Contact: prolonged or repeated exposure may cause skin irritation, redness, edema or drying of the skin.

Skin Absorption: exposure to this material can result in absorption through skin causing health hazard.

- Inhalation: mists may cause irritation to upper respiratory tract. Overexposure may cause coughing, chest discomfort, shortness of breath, dizziness, intoxication and collapse. Excessive exposure may cause liver, kidney effects.
- Ingestion: has caused acidosis, ocular toxicity ranging from diminished visual capacity to complete blindness, and death. May cause lethargy, nausea, vomiting, and diarrhea.

Emergency and First Aid Procedures

#### SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

#### EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

## INHALATION

Remove victim to fresh air. Give artificial respiration if not breathirg. If b. athing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

#### INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

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Section: 06 REACTIVITY DATA

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Stable (Y=Yes/N=No): Y

MATERIAL SAFETY DATA SHEET	PAGE	З
Product Name: TECHNI-CLEAN 420		
Section: 06 REACTIVITY DATA <u>CONTINUED</u>		
Stability Conditions to Avoid None known.		
Incompatibility (Materials to Avoid) Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids.		
Hazardous Decomposition Products Thermal decomposition or combustion may produce smoke, carbon monoxide and carbon dioxide.		
Hazardous Polymerization May Occur(Y=Yes/N=No): N		
Hazardous Polymerization Conditions to Avoid None		
Section: 07 SPILL OR LEAK PROCEDURES		
Steps to be Taken if Material is Released or Spilled		
Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent mater- ial from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged and minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers. Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA and/or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required.		
Waste Disposal Method Treatment, storage, transportation and disposal must be in accordance with EPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271).		
Section: 08 SPECIAL PROTECTIVE INFORMATION		
Respiratory Protection If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.		
Ventilation The use of mechanical dilution ventilation is recommended		

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Product Name: TECHNI-CLEAN 420

Section: 08 SPECIAL PROTECTIVE INFORMATION CONTINUED

whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

### Protective Gloves

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

#### Eye Protection

Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Equipment

Eye wash and safety shower

Section: 09 SPECIAL PRECAUTIONS

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Precautions to be Taken in Handling and Storing

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.

### Other Precautions

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when beir emptied. Containers should not be washed out and used for other purposes. FOR INDUSTRIAL USE ONLY

Section: 10 REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III

Section 302/304-Extremely Hazardous Substances (40 CFR 355) SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). These values are subject to change and the

# MATERIAL SAFETY DATA SHEET

Product Name: TECHNI-CLEAN 420

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Section: 10 REGULATORY INFORMATION	CONTINUED	(1-) (1-)
Hazard Class: 3 Packaging Group: PG III	Identification: UN1993	
Contains: methanol Hazardous Substance RQ: 20000# Labels: Flammable liquid	Emergency Response Guide Number: 27	
Toxic Substances Control Act (TSC	A), 40 CFR 261	

Section 10 information is to remain attached to the material safety data sheet for this product.

While UNICHEM INTERNATIONAL believes that the above data is correct, UNICHEM INTERNATIONAL expressly disclaims liability for any loss or injury arising out of the use of this information or the use of any materials designated.

END OF MSDS

Product Name: TECHNI-CLEAN 420

regulations should be consulted to verify current statutory requirements. Components present in this product at a level which could require reporting under the statute are: Component Name **NONE** Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370) The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Commitsee and the local fire department. The SARA physical and health hazards related to this product are: X Acute Health Hazard	ction: 10 REGULATORY IN	FORMATION <u>CO</u>	NTINUED	
Components present in this product at a level which could require reporting under the statute are:         Component Name **NONE**       RQ TPQ % Range         Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)       The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard       Sudden Release of Pressure X Fire K Chronic Health Hazard         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # Nange 00067-56-1 < 25%	regulations should be	consulted to verify	current statutory	
could require reporting under the statute are:         Component Name **NONE**         Saction 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)         The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tie I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard X Chronic Health Hazard Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # Sange 00067-56-1 < 25%	requirements.		-	
could require reporting under the statute are:         Component Name **NONE**         Saction 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)         The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tie I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard X Chronic Health Hazard Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # Sange 00067-56-1 < 25%	Components preser	t in this product at	a level which	
**NONE**       Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)         The Superfund Amendments and Reauthorization Act (SARA) may         require submission of reports (chemical list, MSDS, Tier I &         Tier II) to the State Emergency Response Commission, Local         Emergency Response Committee and the local fire department.         The SARA physical and health hazards related to this product         are:         X Acute Health Hazard       Sudden Release of Pressure       X Fire         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject       to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986       (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.       Component Name       CAS #       Range         methanol       CAS #       * Range       00067-56-1       < 25%		-		
<pre>**NONE** Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370) The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I &amp; Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are: X Acute Health Hazard</pre>	Component Name		RQ TPQ % Range	÷
The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard	**NONE**			-
The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:         X Acute Health Hazard	Section 311/312 Chemic	al Inventory Reporting	g Requirements (40 CFR 370)	
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Tier II) to the State Emergency Response Commission, Local         Emergency Response Committee and the local fire department.         The SARA physical and health hazards related to this product         are:         X Acute Health Hazard       Sudden Release of Pressure X Fire         Reactive         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Comunity Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS # 3 Range         methanol       00067-56-1 < 25%	-		· -	
Emergency Response Committee and the local fire department.         The SARA physical and health hazards related to this product are:         X         X Acute Health Hazard       Sudden Release of Pressure       X Fire         X Chronic Health Hazard       Reactive         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS #         methanol       CAS #         Camponent Name       CAS #         Mazardous Subtances equal to or greater than the reportable quantities (Rge) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Name       CAS #         methanol       CAS #         Component Name       CAS #         Camponent Name       Cas #         Quantities (Rge) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regula	-			
The SARA physical and health hazards related to this product are:         X       Acute Health Hazard       Sudden Release of Pressure       X       Fire         X       Chronic Health Hazard       Reactive       X       Fire         Section 313-List of Toxic Chemicals (40 CFR 372)       This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.         Component Name methanol       CAS #       Range 00067-56-1       < Range 25%	,	•		
are:       X Acute Health Hazard       Sudden Release of Pressure       X Fire         X Chronic Health Hazard       Reactive       X Fire         Section 313-List of Toxic Chemicals (40 CFR 372)       This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the       Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all       MSDSs that are copied and distributed for this material.         Component Name       CAS #       8 Range         methanol       00067-56-1       < 25%				
X       Chronic Health Hazard       Reactive         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSD5s that are copied and distributed for this material.         Component Name       CAS # Range         methanol       00067-56-1       < 25%			<b>F</b>	
X       Chronic Health Hazard       Reactive         Section 313-List of Toxic Chemicals (40 CFR 372)         This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSD5s that are copied and distributed for this material.         Component Name       CAS # Range         methanol       00067-56-1       < 25%	X Acute Health Hazard	Sudder	Release of Pressure X Fire	
This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS # Stange         methanol       CAS # Stange         CERCLA, 40 CFR 261 AND 302       CERCLA, 40 CFR 261 AND 302         The Comprehensive Environmental Response, Compensation, and       Liability Act of 1980 (CERCLA) requires notification of the         National Response Center 1-800-424-8802 of any release of a       Hazardous Substances equal to or greater than the reportable         quantities (RQs) listed in 40CFR 302.4. Values are given in       pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations       should be consulted to verify current statutory levels.)         Component Na	-			
This product contains the following toxic chemicals subject         to the reporting requirements of Section 313 of the         Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS # Stange         methanol       CAS # Stange         CERCLA, 40 CFR 261 AND 302       CERCLA, 40 CFR 261 AND 302         The Comprehensive Environmental Response, Compensation, and       Liability Act of 1980 (CERCLA) requires notification of the         National Response Center 1-800-424-8802 of any release of a       Hazardous Substances equal to or greater than the reportable         quantities (RQs) listed in 40CFR 302.4. Values are given in       pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations       should be consulted to verify current statutory levels.)         Component Na	Section 313-List of To	vic Chemicals (40 CF	3721	
to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material. Component Name methanol CERCLA, 40 CFR 261 AND 302 The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.) Component Name ethanol Exposure Limits Component Name ethanol TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 310.0 Skin: X tional Fire Protection Agency 2 Health <u>2</u> Fire				
Emergency Planning and Community Right-to-Know Act of 1986         (40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # 00067-56-1 < 25%	-	-	-	
(40 CFR 372). This information should be included in all         MSDSs that are copied and distributed for this material.         Component Name       CAS # 00067-56-1 < 25%				
MSDSs that are copied and distributed for this material.         Component Name methanol       CAS # 00067-56-1       § Range 00067-56-1         CERCLA, 40 CFR 261 AND 302         The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Na				
Component Name methanol       CAS # 00067-56-1       % Range 25%         CERCLA, 40 CFR 261 AND 302       The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Na				
methanol       00067-56-1 < 25%	MSDSs that are copied	and distributed for t	inis material.	
methanol       00067-56-1 < 25%	Component Name		CAS # % Range	
The Comprehensive Environmental Response, Compensation, and         Liability Act of 1980 (CERCLA) requires notification of the         National Response Center 1-800-424-8802 of any release of a         Hazardous Substances equal to or greater than the reportable         quantities (RQs) listed in 40CFR 302.4. Values are given in         pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations         should be consulted to verify current statutory levels.)         Component Na	methanol		00067-56-1 < 25%	
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National Response Center 1-800-424-8802 of any release of a         Hazardous Substances equal to or greater than the reportable         quantities (RQs) listed in 40CFR 302.4. Values are given in         pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations         should be consulted to verify current statutory levels.)         Component Na		-	-	
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pounds for the component and not the mixture, if applicable.         (These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Na			-	
(These values are subject to change and the regulations should be consulted to verify current statutory levels.)         Component Na	quantities (RQs) list	ed in 40CFR 302.4. Val	ues are given in	
should be consulted to verify current statutory levels.)         Component Na	pounds for the component	ent and not the mixtur	e, if applicable.	
should be consulted to verify current statutory levels.)         Component Na	(These values are sub	ject to change and the	regulations	
methanol       00067-56-1       5000         HA Exposure Limits       00067-56-1       5000         omponent Name       00067-56-1       5000         ethanol       00067-56-1       5000         FWA ppm:       200.0 TWA MG/M3:       260.0 STEL ppm:       250.0 STEL MG/M3:       310.0 Skin:       X         tional Fire Protection Agency       2       Fire       2       Fire	should be consulted t	o verify current statu	tory levels.)	
methanol       00067-56-1       5000         HA Exposure Limits       00067-56-1       5000         omponent Name       00067-56-1       5000         ethanol       00067-56-1       5000         FWA ppm:       200.0 TWA MG/M3:       260.0 STEL ppm:       250.0 STEL MG/M3:       310.0 Skin:       X         tional Fire Protection Agency       2       Fire       2       Fire	Component Na.		CAS # CERCLA RQ	
omponent Name ethanol TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 310.0 Skin: X tional Fire Protection Agency <u>2</u> Health <u>2</u> Fire				
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ethanol TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 310.0 Skin: X tional Fire Protection Agency <u>2</u> Health <u>2</u> Fire				-
TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 310.0 Skin: X         tional Fire Protection Agency         2 Health         2 Fire				
2 Health 2 Fire		/M3: 260.0 STEL ppm:	250.0 STEL MG/M3: 310.0 Skin	: X
2 Health 2 Fire	itional Fire Protection	Agency		
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	artment of Transporta			

I.

# MATERIAL SAFETY DATA SHEET

Product Name: TECHNI-HIB 3036

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Section:	10 R	EGULATORY	INFORMATION	CONTINUED

for any loss or injury arising out of the use of this information or the use of any materials designated. - -

END OF MSDS

MATERIAL SAFETY DATA SH	EET	PAGE
Product Name: TECHNI-CLEAN 420W		
Section: 01 PRODUCT IDENTIFICATION		
UNICHEM INTERNATIONAL INC. Emergency Telephone	505-393-7751	
P.O. BOX 1499Previous Version Date707 N. LEECHDate Prepared	4/15/92	
	9/21/93	
HOBBS, NM 88241-1499 Version: 0000003		
Product Name: TECHNI-CLEAN 420W		
Trade Name: Surfactant		
Chemical Description:		
Proprietary blend of water soluble surfactants		
ection: 02 HAZARDOUS INGREDIENTS		
Component Name CA	S# % Range	
methanol 00067-	-56-1 < 35%	
ection: 03 PHYSICAL DATA		
Freezing Point: - 40 Deg.F.		
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa		
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor.		
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. 	ater: Soluble	
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. 	ater: Soluble	
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Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in war Appearance and Odor: Amber liquid; alcoholic odor. 	vater: Soluble	
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<pre>Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. </pre>	vater: Soluble	
<pre>Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in watch Appearance and Odor: Amber liquid; alcoholic odor. </pre>	vater: Soluble	
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Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in way Appearance and Odor: Amber liquid; alcoholic odor. ection: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 90 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Do not enter confined fire space without proper personal protective equipment i.cluding NIOSH app .ed self-conta breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stra of water or foam into hot, burning pools; this may cause	er to	
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<pre>Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. ection: 04 FIRE AND EXPLOSION HAZARD DATA <u>Flash Point (Test Method):</u> 90 Deg.F TCC <u>Extinguishing Media</u> CO2, dry chemical, water spray or fog, or foam. Use water keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. <u>Special Fire Fighting Procedures</u> Do not enter confined fire space without proper personal protective equipment i.cluding NIOSH app ed self-conta breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stru of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personat to a safe area. Keep unnecessary people away. <u>Unusual Fire and Explosion Hazards</u> This material is volatile and readily gives off vapors to</pre>	vater: Soluble	
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1): 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. ection: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 90 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Do not enter confined fire space without proper personal protective equipment i.cluding NIOSH app .ed self-conta breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stru- of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personal to a safe area. Keep unnecessary people away. Unusual Fire and Explosion Hazards This material is volatile and readily gives off vapors to may travel along the ground or be moved by ventilation and protective and the ground or be moved by ventilation and protective and the ground or be moved by ventilation and the ground or be mo	vater: Soluble	
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1): 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. ection: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 90 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Procedures Do not enter confined fire space without proper personal protective equipment i.cluding NIOSH app ed self-conta breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stru- of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personal to a safe area. Keep unnecessary people away. Unusual Fire and Explosion Hazards This material is volatile and readily gives off vapors to may travel along the ground or be moved by ventilation arignited by pilot lights, other flames, sparks, heaters,	vater: Soluble	
<pre>Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in wa Appearance and Odor: Amber liquid; alcoholic odor. </pre>	vater: Soluble	
Freezing Point: - 40 Deg.F. Specific Gravity(H2O=1) : 0.960 Solubility in way Appearance and Odor: Amber liquid; alcoholic odor. 	vater: Soluble	
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Product Name: TECHNI-CLEAN 420W

Section: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED

(even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

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Section: 05 HEALTH HAZARD DATA

Effects of Overexposure

Eye Contact: may cause moderate irritation, including
burning sensation, tearing, redness or swelling. May
cause permanent eye injury, even blindness.
Skin Contact: prolonged or repeated exposure may cause skin
irritation, redness, edema or drying of the skin.
Skin Absorption: exposure to this material can result in
absorption through skin causing health hazard.
Inhalation: mists may cause irritation to upper respiratory
tract. Overexposure may cause coughing, chest
discomfort, shortness of breath, dizziness, intoxication
and collapse. Excessive exposure may cause liver, kidney
effects.
Ingestion: has caused acidosis, ocular toxicity ranging
from diminished visual capacity to complete blindness,
and death. May cause lethargy, nausea, vomiting, and
diarrhea.

Emergency and First Aid Procedures

### SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

#### EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

### INHALATION

Remove victim to fresh air. Give artifici respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

### INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

Section: 06 REACTIVITY DATA

Stable (Y=Yes/N=No): Y

MATERIAL SAFETY DATA SHEET	PAGE 3
Product Name: TECHNI-CLEAN 420W	
Section: 06 REACTIVITY DATA CONTINUED	
Stability Conditions to Avoid None known.	—
Incompatibility (Materials to Avoid)	
Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids.	
Hazardous Decomposition Products	
Thermal decomposition or combustion may produce smoke, carbon monoxide and carbon dioxide.	
Hazardous Polymerization May Occur(Y=Yes/N=No): N	
Hazardous Polymerization Conditions to Avoid None	
Section: 07 SPILL OR LEAK PROCEDURES	
Steps to be Taken if Material is Released or Spilled Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged and minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers. Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA and/or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required. Waste Disposal Method Treatment, storage, transportation and disposal must be in accordance with EPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271).	
Section: 08 SPECIAL PROTECTIVE INFORMATION	
Respiratory Protection If workplace exposure limit(s) of product or any component	
is exceeded, an NIOSH/MSHA approved air supplied respirator	
is advised in absence of proper environmental control. OSHA	
regulations also permit other NIOSH/MSHA respirators	
(negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should	
be implemented to reduce exposure. Ventilation	
The use of mechanical dilution ventilation is recommended	

U SPECIAL PROTECTIVE INFORMATION CONTINUED	
whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).	(°
Protective Gloves Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)	-
Eye Protection Chemical splash guggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.	<b>-</b>
Other Protective Equipment Eye wash and safety shower	
Section: 09 SPECIAL FRECAUTIONS	·
Precautions to be Taken in Handling and Storing Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.	(*** (***
Other Precautions Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes. FOR INDUSTRIAL USE ONLY	
Section: 10 REGULATORY INFORMATION	
Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III	
Section 302/304-Extremely Hazardous Substances (40 CFR 355) SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable	
Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). These values are subject to change and the	

.

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MATERIAL Product Name: TECHNI-CLE		JATA SH	LEET	PA	GE
ection: 10 REGULATORY INFO	RMATION C	CONTINUED			
regulations should be c requirements.	-		-		
Components present could require reporting			Ch		
Component Name **NONE**			RQ	IPQ % Range	2
Section 311/312 Chemical				CFR 370)	
The Superfund Amendment require submission of r		•			
Tier II) to the State E					
Emergency Response Comm		-			
The SARA physical and he are:	alth hazards rela	ted to this p	product		
X Acute Health Hazard		en Release of	f Pressur	e <u>X</u> Fire	
$\underline{X}$ Chronic Health Hazard	_ Reac	LIVE			
Section 313-List of Toxic					
This product contains the to the reporting require	-		ibject		
Emergency Planning and (			1986		
(40 CFR 372). This infor					
MSDSs that are copied an	d distributed for	this materia	1.		
Component Name		CI	\s #	% Range	
methanol				< 35%	
CERCLA, 40 CFR 261 AND 30					<u></u>
The Comprehensive Enviro		-	-		
Liability Act of 1980 (C National Response Center					
Hazardous Substances equ					
quantities (RQs) listed	-				
pounds for the component	and not the mixt	ure, if appli	cable.		
(These values are subjec	-	-			
should be consulted to v	erify current stat	tutory levels	s.)		
Component Name methanol			<u>\s #</u> )067-56-1	CERCLA RQ 5000	
OSUN Euroqueo Iinita					
OSHA Exposure Limits Component Name	<u> </u>				
methanol TWA ppm: 200.0 TWA MG/M3	: 260.0 STEL ppm	: 250.0 STEI	_ MG/M3:	310.0 Skin	: x
National Fire Protection Ag					
2 Health	3 Fire			<u></u>	
0 Reactive		ther			
Department of Transportatio	on Shipping Inform	ation			
Proper Shipping Name: Flar					

Product Name: TECHNI-CLEAN 420W

Section: 10 REGULATORY INF	FORMATION CONTINUED	
Hazard Class: 3	Identification: UN1993	

Packaging Group: PG III Contains: methanol Hazardous Substance RQ: 14300# Emergency Response Guide Number: 27 Labels: Flammable liquid

Toxic Substances Control Act (TSCA), 40 CFR 261

This product (or components if product is a mixture) is in compliance with TSCA. --Section 10 information is to remain attached to the material safety data sheet for this product. --While UNICHEM INTERNATIONAL believes that the above data is correct, UNICHEM INTERNATIONAL expressly disclaims liability for any loss or injury arising out of the use of this information or the use of any materials designated.

END OF MSDS

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DATA SHEET

EUROCHEM DIVISION INDUSTRIAL CHEMICALS DIVISION PETRECO DIVISION POLYMERS DIVISION TRETOLITE DIVISION

1. CHEMICAL PRODUCT AND COMPANY IDE	NTIFICATION			
PRODUCT NAME:	TRETOLITE (R) PA	TRETOLITE (R) PAO0100F		
IDENTIFICATION NUMBER:	PA00100F			
PRODUCT USE/CLASS:	Paraffin Solvent			
MANUFACTURER/SUPPLIER	EMERGENCY TELEPHONE NUMBERS (24 HCUR):			
Petrolite Corporation 369 Marshall Ave St. Louis, Mo 63119-1897 CUSTOMER CARE: 1-800-872-1916 8:00am-5:00pm Monday-Friday (CST)	Chemtrec: Canutec:	800-424-9300 613-966-6666		
Preparer: Mike Newberry	Prepare Date:	07/13/95		
Title: Sr. Product Manager	Supercedes Date:	06/20/95		
	Date Printed:	08/16/95		

ITEM	HAZARDOUS INGREDIENTS		CAS #		WT/V	VT %		
01	Toluene 108-88-3				8-3	30	D-60	
02	Xylene*	Xylene* 1330-20-7						1-5
03	VM&P Napht	ha			64742-	89-8	] 30	0-60
			* Solvent C	Component				
		ACGIH		OŚHA		СОМ	PANY	
ITEM	TLV-TWA	TL - STEL	PEL-TWA	PEL-C	EIL	TLV-	TWA	SKIN
01	50ppm	N.E.	200ppm	N.E.		N.E.		Y
02	100ppm	150ppm	100ppm	N.E.		N.E.		N
03	300ppm	N.E.	N.E.	N.E.		N.E.		N

IS MSDS PRODUCED BY PETROLITE CORPORATION, ST. LOUIS, MO. CONTINUED ON NEXT PAGE ODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE LAST PAGE Page 1

Product Name:	TRETOLITE (R) PA00100F	Date Prepared:	07/13/95
Product Number:	PA 00 100F	Supersedes:	06/20/95

2. COMPOSITION/INFORMATION ON INGREDIENTS - continued

This product contains the following NON-HAZARDOUS COMPONENTS:

CHEMICAL NAME

CAS NUMBER

No NON-HAZARDOUS COMPONENTS are contained in this product

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*:

Appearance: Yellow liquid

Odor: Aromatic odor

FLAMMABLE liquid and vapor. Skin and eye irritant. May cause irritation to the respiratory tract. Contains a material which can be absorbed through the skin. Contains a material which can cause liver and kidney damage. Contains a material which can cause nervous system effects. Contains a material which may cause embryo/fetotoxicity based on animal data. Contains a material which may cause effects to the blood and/or bone marrow. Contains a material which may cause cardiac effects.

### EFFECTS OF EXPOSURE - EYE CONTACT:

Direct eye contact may cause mild to severe irritation and may produce moderate, but reversible eye injury.

### EFFECTS OF EXPOSURE - SKIN CONTACT:

Direct skin contact may cause irritation. Prolonged and repeated skin contact may cause irritation and possibly dermatitis. A component(s) of this product may be slightly absorbed through the skin upon direct contact, possibly resulting in toxic effects similar to those of inhalation.

### **EFFECTS OF EXPOSURE - INHALATION:**

Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated, or high exposures may cause chemical pneumonitis and, in extreme cases, pulmonary edema. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Acute overexposure to a component(s) in this product has been shown to cause cardiac injury. Ingestion of ethyl alcohol in conjunction with exposure to a component(s) of this product may increase the adverse health effects expected from ethyl alcohol alone.

### **EFFECTS OF EXPOSURE - INGESTION:**

Harmful if swallowed. May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. May be readily absorbed through the gastrointestinal tract. Effects of ingestion are similar to those of inhalation.

### **EFFECTS OF EXPOSURE - CHRONIC EFFECTS:**

A component(s) of this product may cause kidney and liver damage upon prolonged and repeated overexposures. A component(s) of this product has been shown to cause adverse blood, bone marrow and

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CONTINUED ON NEXT PAGE Page 2

Product Name:	TRETOLITE (R) PA00100F	Date Prepared:	07/13/95
Product Number:	PA00100F	Supersedes:	06/20/95

### SECTION 3 - HAZARDS IDENTIFICATION - continued

cardiac effects in laboratory animals. A component of this product may cause blood disorders upon high exposures. Animal studies have shown that a component(s) of this product is associated with adverse effects or embryo/fetotoxicity at maternally toxic dosage levels.

EFFECTS OF EXPOSURE - CARCINOGENICITY: No known information.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Skin Absorption, Inhalation, Eye Contact

SECTION 4 - FIRST AID MEASURES

### EYES:

If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

SKIN:

Wash skin thoroughly with soap and water. If rash or irritation develops, consult a physician. Launder clothing before reuse.

### **INHALATION:**

If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

INGESTION:

Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Consult a physician immediately. NOTE TO PHYSICIAN: Administer activated carbon if indicated.

Flashpoint and Method:	44 F (7 C) SFCC ASTM D-3828	
Flammable Limits:	LEL: N.D.	UEL: N.D.
Lutoignition Temperatur :	N.D.	
EXTINGUISHING MEDIA: Alcohol	Foam, CO2, Dry Chemical, Foam, Water	Fog
HAZARDOUS COMBUSTION PRO Oxides of carbon.	DUCTS:	
FIRE-FIGHTING PROCEDURES AN		
Use a self-contained breathing app	paratus with full facepiece operated in pre	ssure-demand or other positive

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CONTINUED ON NEXT PAGE Page 3

Product Name:	TRETOLITE (R) PAO0100F	Date Prepared:	07/13/95
Product Number:	PA00100F	Supersedes:	06/20/95
SECTION 5 -	FIRE-FIGHTING MEASURES - continued		
Flammable lie	RE AND EXPLOSION HAZARDS: quid. Vapors can form an ignitable mixture w ce and flash back.	vith air. Vapors can flow along sur	faces to a distant
SECTION 6 -	ACCIDENTAL RELEASE MEASURES		
	-S: protective equipment as necessary. Absorb e with all federal, state and local regulations.	with suitable chemical absorbent.	Dispose of material
suitable chen	S: ent entering any sewer or waterway. Transfe nical absorbent. Dispose of material in accord rective equipment as necessary.		
OTHER: No known int	formation.		
SECTION 7 -	HANDLING AND STORAGE		
Flammable lic	ND STORAGE: Juid. Avoid heat, sparks and open flames. A ap container closed when not in use. Hazardo		l container. Do not

### **RESPIRATORY PROTECTION:**

When concentrations exceed the exposure limits specified, use of a NIOSH-approved organic vapor caloridge respirator is recomplianded. Where the protection factor may be exceeded, use of a full facepiece, supplied air or Self Contained Breathing Apparatus (SCBA) may be necessary.

### PERSONAL PROTECTION:

Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact.

### ENGINEERING CONTROLS:

Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Product Name:	TRETOLITE (R) PA00100F	Date Prepared:	07/13/95
	PA00100F	Supersedes:	06/20/95

	CAL PROPERTIES

Solubility in Water:	Insoluble
Density @ 60 F (16 C):	6.73 lb/USgal
Specific Gravity @ 60 F (16 C):	0.81
Flash Point SFCC ASTM D-3828:	44 F (7 C)
Boiling Range ASTM D-86:	N.D.
Vapor Pressure:	N.D.
Pour Point ASTM D-97:	-40 F
pH @ 5.0% in 75/25 Isopropanol/Water:	N.D
Viscosity ASTM D-445:	
@ 60 F ( 16 C)	32 SUS
@ 30 F (- 1 C)	33 SUS
@ 0 F (-18 C`	35 SUS
Freezing Point:	N.D.
Odor Threshold:	N.D.
Evaporation Rate:	Is slower than Ether
Vapor Density:	Is heavier than air
Coefficient of Water/Oil Distribution:	N.D.
Physical State:	N.D.

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: No known information.

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CONTINUED ON NEXT PAGE Page 5

Product Name:	TRETOLITE (R) P	A00100F		Date Prepared:	07/13/95
Product Number:	PA00100F			Supersedes:	06/20/95
SECTION 11	- TOXICOLOGI	CAL INFORMATION			
		PRODUCT TO	XICOLOGICAL INF	ORMATION	
No know	n information		**************************************		
EYE IRRITATI No known inf	ON SCORE(S): ormation.				
SKIN IRRITAT No known inf	TION SCORE(S) ormation.	:			
OTHER: No known inf	ormation.				
		COMPONENT TO	XICOLOGICAL IN	FORMATION:	
Toluene Xylene* VM&P Naphti	na	L <u>D50 Dermal</u> 14 g/kg-RB >3.95g/kg-RB N.D.	LD50 Oral 5 g/kg-R 4.3 g/kg-R N.D.	LC50 Inhalation 8000 ppm/4H-R 5000 ppm/4H-R N.D.	
LEGEND:	M = 1	Rat Rabbit Mouse Guinea Pig			
SECTION 12	ECOLOGICAL	INFORMATION			
	INFORMATION COTOX* Repo	J: Ints for many products.	Please call for m	ore information.	

### **SECTION 13 - DISPOSAL INFORMATION**

### **DISPOSAL INFORMATION:** Dispose of material in accordance with applicable federal, state and local regulations.

THIS MSDS PRODUCED BY PETROLITE CORPORATION, ST. LOUIS, MO. CONTINUED ON NEXT PAGE

Product Name:	TRETOLITE (R) PA00100F	Date Prepared:	07/13/95
Product Number:	PA00100F	Supersedes:	06/20/95
SECTION 14	- TRANSPORTATION INFORMATION		
U.S. DEPART	MENT OF TRANSPORTATION (D.O.T.) INFORMA	ATION:	
Proper Shippi	ng Name: Flammable liquid, n.o.s.		
Technical Des	cription: (contains VM&P naphtha and Toluene	)) .	
Hazard Classe	es: Primary: 3 Secondary: N.A. Tertiary: N./	۹.	
UN/NA Numb	er: UN1993 Packing Group: II D.O.T. Em	ergency Response Guide: 027	
Marine Polluta	int: N.A.		
INTERNATION	AL MARITIME ORGANIZATION (I.M.O.) INFORM	ATION:	<u></u>
Proper Shippin	ng Name: Flammable liquid, n.o.s.		
Technical Des	cription: (contains VM&P naphtha and Toluene	)	
Hazard Classe	s: Primary: 3.2 Secondary: N.A. Tertiary: N	I.A.	
UN/NA Numbe EMS Number:		e Page: 3230	
MFAG Table N	Number 1: 311 MFAG Table Number 2: N.A.		
Marine Polluta	nt: N.A.		
Schedule 'B' N	Number: 2707.50.00001		
CANADIAN TI	RANSPORTATION OF DANGEROUS GOODS (T.D	D.G.) INFORMATION:	
Proper Shippir	ng Name: Flammable liquid, n.o.s.		
Technical Des	cription: (contains VM&P naphtha and Toluene)	)	
Hazard Classe	s: Primary: 3 Secondary: 9.2 Tertiary: N.A.		
UN/NA Numbe	er: UN1993 Packing Group: II		

roduct Name:	TRETOLITE (	R) PAO0100F	Date Prepared:	07/13/95
roduct Number:	PA00100F		. Supersedes:	06/20/95
SECTION 14	- TRANSPO	RTATION INFORMATION - continued		
MISC. SHIPP	ING INFORM	ATION:	****	
Petrolite Labe	l Codes:			
D.O.T.:				
Warning Labe		Flammable Liquid, Toxic, Irritant - logo	nachtha and Taluana)	
Shipping Stic	ker: 760	Flammable liquid, n.o.s.(contains VM&P	napritha and Foluene) (	111222
I.M.O.:				
Warning Labe		Flammable Liquid, Toxic, Irritant - logo		
Shipping Stic	ker: 760	Flammable liquid, n.o.s.(contains VM&P	naphtha and Toluene)	IN1993
T.D.G.:				
Warning Labe	I: N.A.		•	
Shipping Stic	ker: N.A.			
empping end				
Other Labels:				
Add-on Label	6: N.A.			
NFPA Label:	813	NFPA Label Health = 2 Flammability = 3	Reactivity = 0 Special =	blank
MGD Label:	S			
National Moto	or Freight			
Class Code:	050232	Iron or Steel Cleaning Compounds, Liquid		55 TL 35

### SECTION 15 - REGULATORY INFORMATION

### CERCLA HAZARDC J SUBSTANCES AND REPORTABLE QUANTITIES:

The Petrolite product contains the following listed hazardous substances subject to the release reporting requirements of the United States Environmental Protection Agency (EPA) regulation, 40 CFR Part 302, pursuant to the Comprehensive Environment Response, Compensation and Liability Act of 1980 (CERCLA). The Reportable Quantities (RQs) are presented in pounds of listed hazardous substance. The RQ is also calculated in gallons of equivalent product.

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CONTINUED ON NEXT PAGE Page 8

	TRETOLITE (R) PAO0100F		Date Prepared:	07/13/95
oduct Number:	PA00100F		Supersedes:	06/20/95
SECTION 15	- REGULATORY INFORMATIC	DN - continued		
Chemical Na	me	CAS Number	RQ # F	IQ, GAL
Toluene		108-88-3	1,000	291
Xylene*		1330-20-7	100	479
This Petrolite reporting req the Superfun Threshold Pla the RQ or TP	product contains the followin uirements of the United States d Amendments and Reauthoriz anning Quantities (TPQ's) are o	NCES and REPORTABLE QUANT og listed Extremely Hazardous Sut s Environment Protection Agency zation Act of 1986 (SARA). The calculated in gallons of equivalent EHS. No data is given for EHS's p	ostances (EHS's (EPA) regulatio Reportable Qua product. Each	n 40 CFR Part 304 of antities (RQ's) and the entry corresponds to
Chemical Nar		CAS Number	RQ # RQ GAL	TPQ# TPQ GAL
No SA	RA Extremely Hazardous mate	rials present in this product.		
	• •	the following hazard and physic t 370, pursuant to Sections 311		
requirements Hazard: Imm	product has been assigned to of EPA regulation 40 CFR Par nediate Health, Fire			
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite	product has been assigned to of EPA regulation 40 CFR Par nediate Health, Fire uid, Mixture ON 313:	t 370, pursuant to Sections 311 g listed toxic substances subject	and 312 of SA	RA.
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture ON 313: product contains the followin CFR Part 372 pursuant to Se	g listed toxic substances subject ction 313 of SARA.	and 312 of SA	RA.
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture ON 313: product contains the followin CFR Part 372 pursuant to Se	g listed toxic substances subject ction 313 of SARA.	and 312 of SA	RA. g requirements of EPA
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar Toluene	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture ON 313: product contains the followin CFR Part 372 pursuant to Se	g listed toxic substances subject ction 313 of SARA.	and 312 of SA to the reporting AS Number	RA. g requirements of EPA Wt/Wt_%_
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar Toluene Xylene*	product has been assigned to of EPA regulation 40 CFR Par nediate Health, Fire uid, Mixture <b>ON 313:</b> product contains the followin CFR Part 372 pursuant to Se me	g listed toxic substances subject ction 313 of SARA.	and 312 of SA to the reporting <u>AS Number</u> 108-88-3	RA. g requirements of EPA <u>Wt/Wt %</u> 51 %
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar Toluene Xylene* VM&P Napht NEW JERSEY	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture <b>ON 313:</b> product contains the followin CFR Part 372 pursuant to Se me ha	g listed toxic substances subject ction 313 of SARA.	and 312 of SA to the reporting <u>AS Number</u> 108-88-3 1330-20-7 64742-89-8	RA. g requirements of EPA <u>Wt/Wt %</u> 51 % 3.1 % 45 %
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar Toluene Xylene* VM&P Napht NEW JERSEN The following	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture ON 313: product contains the followin CFR Part 372 pursuant to Se me ha	g listed toxic substances subject ction 313 of SARA.	and 312 of SA to the reporting <u>AS Number</u> 108-88-3 1330-20-7 64742-89-8	RA. g requirements of EPA <u>Wt/Wt %</u> 51 % 3.1 % 45 %
requirements Hazard: Imm Physical: Liq SARA SECTI This Petrolite regulation 40 Chemical Nar Toluene Xylene* VM&P Napht NEW JERSEY The following Chemical Nar	product has been assigned to of EPA regulation 40 CFR Par hediate Health, Fire uid, Mixture ON 313: product contains the followin CFR Part 372 pursuant to Se me ha	t 370, pursuant to Sections 311 g listed toxic substances subject ction 313 of SARA. C but are among the top five comp C	and 312 of SA to the reporting 108-88-3 1330-20-7 64742-89-8 conents in this	RA. g requirements of EPA <u>Wt/Wt %</u> 51 % 3.1 % 45 %

Product Neme:		Date Prepared:	07/13/95
roduct Number:	PA00100F	Supersedes:	06/20/95
OFOTION AF			
SECTION 15	- REGULATORY INFORMATION - continued		성용한 이 가 있었다. 또 알 위 방법 
	NIA RIGHT-TO-KNOW: g non-hazardous ingredients are present in the product a	t greater than 3%:	
Chemical Nar		CAS Number	
No non	n-hazardous ingredients are present in the product at gre	ater than 3%.	
CALIFORNIA			
California Coo	product contains the following listed air toxic substance de of Regulations, Title 17 and 26, Subchapter 7.6 purs and Assessment Act of 1987.	es subject to the report uant to the Air Toxics '	ing requirements of 'Hot Spots"
Chemical Nan	ne	CAS Number	Wt/Wt_%
Toluene		108-88-3	51 %
This product	SUBSTANCES CONTROL ACT: or its components, if a mixture, are listed on the Toxic S contains the following chemical substances subject to the rted from the United States:		
This product This product 12(b) if expor	or its components, if a mixture, are listed on the Toxic S contains the following chemical substances subject to the rted from the United States:		
This product This product 12(b) if expor Chemical Nan No TSC INTERNATION CANADIAN W	or its components, if a mixture, are listed on the Toxic S contains the following chemical substances subject to the rted from the United States: ne CA 12(b) chemicals are present in the product.	ne reporting requiremen	its of TSCA Section
This product This product 12(b) if expor Chemical Nan No TSC INTERNATION CANADIAN W This Material If the Canadia listed in Sectio Data Sheet, a	or its components, if a mixture, are listed on the Toxic S contains the following chemical substances subject to the rted from the United States: DE CA 12(b) chemicals are present in the product. NAL REGULATIONS: VHMIS:	ne reporting requirement <u>CAS Number</u> the Controled Product t Regulations apply to the contained in Section 16	ts of TSCA Section t Regulations the chemical product of this Material Safety
This product This product 12(b) if expor Chemical Nan No TSC INTERNATION CANADIAN W This Material If the Canadia listed in Section Data Sheet, a the extent neo	or its components, if a mixture, are listed on the Toxic S contains the following chemical substances subject to the rted from the United States:	ne reporting requirement <u>CAS Number</u> the Controled Product t Regulations apply to the contained in Section 16	ts of TSCA Section t Regulations the chemical product of this Material Safety

Product Name:	TRETOLITE (R) PA00100F	Date Prepared:	07/13/95
Product Number:	PA00100F	Supersedes:	06/20/95

### **SECTION 16 - OTHER INFORMATION**

### **CALIFORNIA PROPOSITION 65:**

WARNING. This product contains a chemical known to the State of California to cause cancer. Warning. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

NFPA:	
Health:	2
Flammability:	3
Reactivity:	0
Special:	N.A.

LEGEND:	N.A Not Applicable,
	N.E. Not Established,
	N.D Not Determined

### **REVISION SUMMARIES:**

6/20 removed cancer statements associated with toluene 7/13/95 Update RQ for Xylene, Sect. 15 File 704

The information and recommendations contained hereon are believed to be accurate and reliable as of the date issued. However, we do not warrant their accuracy or reliability.

We only warrant to you, but no other persons, that the product referenced herein shall conform to our quality assurance specifications for the product on the date of shipment to you. WE EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Any technical advice, information or recommendation given to you is given gratis without any warranty whatsoever as to the advice, information or recommendation given or results obtained.

You shall assume all risks and shall be solely responsible for the results obtained from the storage, handling or use of the product and any information or recommendation regarding the product, whether alone or in combination with other substances.

UNDER NO CIRCUMSTANCES SHALL WE BE LIABLE FOR ANY ECONOMIC, CONSEQUENTIAL (INCLUDING LOST PROFITS OR SAVINGS) OR INCIDENTAL DAMAGES, EVEN TWE ARE INFORMED OF THEIR POSSIBLITY, EXEMPLARY OR PUNITIVE DAMAGES, REGARDLESS OF THE FORM OR ACTION, WHETHER IN CONTRACT OR TORT, INCLUDING OUR SOLE OR JOINT NEGLIGENCE AND STRICT LIABILITY.

DAKER PLIKULIIE



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MATERIAL SAFETY DATA SHEET

PAGE 1 PETROLITE CORPORATION REVISION DATE: 09/23/91 369 MARSHALL AVE. EMERGENCY PHONE: 1-314-961-3500 ST.LOUIS MO 63119 U.S.A CHEMTREC EMER NO: 1-800-424-9300 SECTION 1 PRODUCT IDENTIFICATION PRODUCT: CRW0170F TRADE NAME: N/A LABEL: 004 000 000 (IF HAZARDOUS PER D.O.T. CFR TITLE 49) SHIPPING NAME: Flammable Liquid, N.O.S. HAZARD CLASS: Flammable Liquid ID0: UN1993 CHEMICAL DESCRIPTION ALKYLPYRIDINE SALTS, FATTY QUATERNARY AMMONIUM CHLORIDE AND AMMONIUM BISULFITE IN METHANOL AND WATER. SECTION 2 HAZARDOUS INGREDIENTS CAS NUMBER MATERIAL **%** EXPOSURE LIMITS 00067-56-1 Methanol 30-60 ACGIH TLV: 200ppm TWA OSHA PEL: 200ppm TWA ACGIH STEL: 250 ppm 68607-19-2 Alkylpyridine salts 5-10 Not established \* \* Fatty guaternary ammonium 5-10 Not Established chloride 10192-30-0 Ammonium bisulfite 1-5 Not Established \*\*Specific chemical identity is being withheld for confidential business purposes. SECTION 3 PHYSICAL DATA SPECIFIC GRAVITY(H20 = 1.0060 F); 0.964 VOLATILITY: Moderate VAPOR PRESSURE: Not Established SOL. IN WATER: Soluble ••• APPEAT TCE AND ODOR: Amber liquid. Pungent amine odor. SECTION 4 FIRE AND EXPLOSION HAZARD DATA FLAMMABLE LIMITS: Not Established FLASH POINT: 84 F \*\*\*CONTINUED ON PAGE: 2\*\*\*

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### MATERIAL SAFETY DATA SHEET

PAGE 2

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#### \*\*\*CONTINUATION OF CRW0170F\*\*\*

FLASH METHOD:

SFCC ASTM D-3828

EXTINGUISHING MEDIA:

Use water spray or fog, alcohol-type foam, dry chemical or CO2.

FIRE FIGHTING PROCEDURES:

Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Flammable. Cool fire-exposed containers using water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flammable liquid, vapors of which can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

EFFECTS OF OVEREXPOSURE: INHALATION:

> Prolonged exposure may cause mild irritation of mucous membranes, headache and tiredness. At elevated concentrations, symptoms may include nausea, shortness of breath and a sense of drunkeness. In extreme cases, visual disturbances and occular damage may occur. Inhalation of mists or exposure to very high vapor concentrations may cause extreme eye, nose and respiratory irritation, and may result in lung damage. Prolonged overexposure may result in chemical pneumonitis and systemic effects.

SKIN AND EYE CONTACT:

Brief, intermittant skin contact may cause moderate to severe irritation resulting in skin rashes. Prolonged contact may cause severe irritation or burns where clothing is confined. Contact with eyes may produce severe irritation or burns with transient eye injury.

INGESTION:

May cause severe gastrointestinal distress with nausea, vomiting and diarrhea. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. May be readily absorbed through the gastrointestinal tract. Ingestion of methanol may result in a feeling of intoxication and can cause visual disturbances and, in extreme cases, occular damage.

\*\*\*CONTINUED ON PAGE: 3\*\*\*

BAKER PETROLITE



PAGE 3

### \*\*\*CONTINUATION OF CRW0170F\*\*\*

EMERGENCY AND FIRST AID PROCEDURES:

If contacted, wash skin immediately with soap and water. Remove contaminated clothing and wash before reuse. If irritation or burns develop, consult a physician. If in eyes, irrigate with flowing water immediately and continuously for fifteen minutes. Consult a physician. If inhalsd, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe. If ingested, induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician ... immediately.

\*\*\*\*

### SECTION 6 REACTIVITY DATA

STABILITY:

Stable under normal conditions of storage and use.

INCOMPATIBILITY:

Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and sulfur.

HAZARDOUS POLYMERIZATION:

Will not occur.

\*\*\*\*\*\*

SECTION 7 SPILL AND LEAK PROCEDURES

IF MATERIAL IS SPILLED OR RELEASED:

Small spill - Absorb on paper, cloth or other material. Large spill - Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Cover residue with dirt, or suitable chemical adsorbent. Use personal protective equipment as necessary.

DISPOSAL METHOD:

Place chemical residues and contaminated adsorbent materials into a suitable waste container and take to an approved hazardous waste disposal site. Dispose of all residues in accordance with applicable waste management regulations.

DECONTAMINATION PROCEDURES: Not appropriate.

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PAGE



#### \*\*\*CONTINUATION OF CRW0170F\*\*\*

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**RESPIRATORY PROTECTION:** 

When concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a self-contained breathing unit may be necessary.

VENTILATION:

General ventilation should be provided to maintain ambient concentrations below nuisance levels. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

PROTECTIVE CLOTHING:

Chemical-resistant gloves and chemical goggles, face shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

# SECTION 9 SPECIAL PRECAUTIONS

Flammable liquid. Avoid heat, sparks and open flames. Avoid breathing of vapors and contact with eyes, skin or clothing. Keep container closed when not in use. Hazardous product residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning.

\*\*\*\*\*\*\*\*\*

Although the information and recommendations set forth herein are believed to be correct as of the date hereof, Petrolite makes no representations to the accuracy of such information and recommendations. It is the user's responsibility to determine the suitability and completeness of such information and recommendation for its own particular use.Petrolite shall not be responsible for any direct, indirect, incidental or consequential damages of whatsoever nature resulting from the publication, use of or reliance upon such information and recommendations.

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PAGE 1

REVISION DATE: 09/21/93 PETROLITE CORPORATION EMERGENCY PHONE: 1-314-961-3500 369 MARSHALL AVE. CHEMTREC EMER NO: 1-800-424-9300 ST.LOUIS MO 63119 U.S.A \*\*\*\*\*\* SECTION 1 PRODUCT IDENTIFICATION LABEL: 004 PRODUCT: CRW0037F TRADE NAME: TRETOLITE 000 000 (IF HAZARDOUS PER D.O.T. CFR TITLE 49) SHIPPING NAME: Flammable liquid, n.o.s. ID#: UN1993 HAZARD CLASS: 3 CHEMICAL DESCRIPTION CARBOXYLIC ACID SALTS OF ACYLATED POLYAMINES AND FATTY QUATERNARY AMMONIUM CHLORIDE IN METHANOL AND WATER. SECTION 2 HAZARDOUS INGREDIENTS CAS NUMBER F MATERIAL EXPOSURE LIMITS 00067-56-1 Methanol 10-30 ACGIH TLV: 200ppm TWA OSHA PEL: 200ppm TWA ACGIH STEL: 250 ppm Fatty quaternary ammonium 1-5 Not Established \* \* chloride \*\*Specific chemical identity is being withheld for confidential business purposes SECTION 3 PHYSICAL DATA SPECIFIC GRAVITY(H20 = 1.0060 F): 1.028VOLATILITY: ApprVAPOR PRESSURE: Not EstablishedSOL. IN WATER: Soluble VOLATILITY: Appreciable APPEARANCE AND ODOR: Yellow liquid. Amine odor. \*\*\*\*\*\*\* SECTION 4 FIRE AND EXPLOSION HAZARD DATA FLASH POINT: 103 F FLAMMABLE LIMITS: Not Established FLASH METHOD: SFCC ASTM D-3828 EXTINGUISHING MEDIA: Use water spray or fog, alcohol-type foam, dry chemical or CO2. \*\*\*CONTINUED ON PAGE: 2\*\*\*

\*\*\*CONTINUATION OF CRW0037F\*\*\*

FIRE FIGHTING PROCEDURES:

Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Combustible. Keep fire exposed containers cool using water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

EFFECTS OF OVEREXPOSSE: INHALATION:

> Prolonged exposure may cause mild irritation of mucous membranes, headache and tiredness. At elevated concentrations, symptoms may include nausea, shortness of breath and a sense of drunkeness. In extreme cases, visual disturbances and occular damage may occur. Inhalation of mists or exposure to very high vapor concentrations may cause extreme eye, nose and respiratory irritation, and may result in lung damage. Prolonged overexposure may result in chemical pneumonitis and systemic effects.

### SKIN AND EYE CONTACT:

Brief, intermittant skin contact may cause moderate to severe irritation resulting in skin rashes. Prolonged contact may cause severe irritation or burns where clothing is confined. Contact with eyes may produce severe irritation or burns with transient eye injury.

### INGESTION:

May be harmful if swallowed. May cause gastrointestinal distress with nausea, vomiting and diarrhea. Ingestion of methanol may result in a feeling of intoxication and can cause visual disturbances and, in extreme cases, occular damage.

### EMERGENCY AND FIRST AID PROCEDURES:

If contacted, wash skin immediately with soap and water. Remove contaminated clothing and wash before reuse. If irritation or burns develop, consult a physician. If in eyes, irrigate with flowing water immediately and continuously for fifteen minutes. Consult a physician. If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

\*\*\*CONTINUED ON PAGE: 3\*\*\*

### \*\*\*CONTINUATION OF CRW0037F\*\*\*

If ingested, induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

STABILITY:

Stable under normal conditions of storage and use.

INCOMPATIBILITY:

Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxide. .f nitrogen. HCl.

HAZARDOUS POLYMERIZATION: Will not occur.

\*\*\*\*\*\*\*\*\*\*\*

SECTION 7 SPILL AND LEAK PROCEDURES

IF MATERIAL IS SPILLED OR RELEASED:

Small spill - Absorb on paper, cloth or other material. Large spill - Dike to prevent entering any sever or waterway. Transfer liquid to a holding container. Cover residue with dirt, or suitable chemical adsorbent. Use personal protective equipment as necessary.

DISPOSAL METHOD:

Place chemical residues and contaminated adsorbent materials into a suitable waste container and take to an approved hazardous waste disposal site. Dispose of all residues in accordance with applicable waste management regulations.

DECONTAMINATION PROCEDURES:

Not appropriate.

SECTION 8 SPECIAL PROTECTION INFORMATION

### **RESPIRATORY PROTECTION:**

When concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a self-contained breathing unit may be necessary.

\*\*\*CONTINUED ON PAGE: 4\*\*\*

### \*\*\*CONTINUATION JF CRW0037F\*\*\*

VENTILATION:

General ventilation should be provided to maintain ambient concentrations below nuisance levels. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

### PROTECTIVE CLOTHING:

Chemical-resistant gloves and chemical goggles should be used to prevent skin and eye contact.

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Avoid heat, sparks and open flames. Avoid breathing of vapors and contact with eyes, skin or clothing. Keep container closed when not in use. Hazardous product residue may remain in emptied container. Do not reuse empty container without commercial cleaning or reconditioning.

Although the information and recommendations set forth herein are believed to be correct as of the date hereof, Petrolite makes no representations to the accuracy of such information and recommendations. It is the user's responsibility to determine the suitability and completeness of such information and recommendation for its own particular use.Petrolite shall not be responsible for any direct, indirect, incidental or consequential damages of whatscever nature resulting from the publication, use of or reliance upon such information and recommendations.

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PAGE 1

PETROLITE CORPORATIONREVISION DATE:10/11/93369 MARSHALL AVE.CHEMTREC EMER NO:1-800-424-9300ST. LOUIS MO 63119 U.S.A.INFORMATION PHONE:1-314-961-3500

### PRODUCT: CRW0037F

\*\*\*\*\*\*

The following information is provided for the convenience of Petrolite customers. This Environmental Data Sheet is incorporated into the Material Safety Data Sheet (MSDS) for the Petrolite product named above. When physically attached to the MSDS, this Environmental Data Sheet must not be detached from the MSDS. Any copying or redistribution of the MSDS to which this Environmental Data Sheet is attached must include copying and redistribution of this Environmental Data Sheet as well.

Petrolite makes reasonable efforts to assure the accuracy of this information, but makes no representation or warranty about it. This information is not intended as legal advice nor as a definitive guide to the requirements of applicable laws and regulations.

### NEPA DESIGNATION 704

PRODUCT LABEL CODES

DEGREE OF HAZAED

HEALTH (BLUE)	= 1	O = LEAST
FLAMMABILITY (RED)	= 2	1 = SLIGHT
REACTIVITY (YELLOW)	= 0	2 = MODERATE
SPECIAL HAZARDS	= .	3 = HIGH
		4 = EXTREME

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### TSCA INVENTORY

This product, or its components, if a mixture, are on the Toxic Substance Control Act (TSCA) inventory.

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PETROLITE CORPORATIONREVISION DATE:10/11/93369 MARSHALL AVE.CHEMTREC EMER NO:1-800-424-9300ST. LOUIS MO 63119 U.S.A.INFORMATION PHONE:1-314-961-3500

## **PRODUCT:** CRW0037F

CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

This Petrolite product contains the following materials which have been listed as a hazardous substance or substances subject to the release reporting requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and 40 CFR Part 302 and 40 CFR 355.40. The reportable quantities (EQs) are calculated in gallons of product. Each entry corresponds to the RQ, in pounds, of the listed CERCLA hazardous substance.

CHEMICAL

CAS NUMBER EQ, # EQ, GAL

SARA TITLE III, EXTREMELY HAZAEDOUS SUBSTANCES

This Petrolite product contains the following materials which have been listed as an Extremely Hazardous Substance or Substances subject to the emergency planning provisions of SARA Title III, Section 302 and 40 CFR 355.30, the release reporting requirements of SARA Title III, Section 304 and 40 CFR 355.40, and the hazardous chemical reporting/community rightto-know requirements of SARA Title III, Section 312 and 40 CFR Part 370. The reportable quantities (RQs) and threshold planning quantities (TPQs) are calculated in gallons of product. Each entry corresponds to the RQ or TPQ in pounds, as appropriate, for the listed Ex remely Hazardous Substances. No data is given for listed Extremely Hazardous Substances present in concentrations below applicable de minimis levels.

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SARA TITLE III, SECTION J11: HAZARD CATEGORIES

This Petrolite product has been assigned to the following hazard category(ies), as provided by SARA Title III, Section 311 and 40 CFE 370, Subpart A, 370.2:

Acute (immediate) health hazard

PAGE 3

PRODUCT: CRW0037F

SARA TITLE III, SECTION 311: HEZARD CATEGORIES (CONT)

Fire hazard

SABA TITLE III, SECTION 312 INVENICRY REPORTING INFORMATION

This Petrolite product has the following physical characteristics for any required reporting on the federal Tier Two form or its equivalent:

### MIXTURE

### LIQUID

SARA TITLE III, SECTION 313

This Petrolite product contains the following materials which have been listed as a toxic chemical or chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEHICAL CAS NUMBER WEIGHT PERCENT

PETROLITE EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING THOSE OF MEECHANTAEILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE FRODUCT AND THE INFORMATION CONTAINED HEREIN OR ANY USE OR RELIANCE IHEREON. Petrolite shall not be responsible for any direct, indirect, incidental or consequential damage of whatsoever nature resulting from the publication, use of or reliance upon this information.

MATERIAL SAFETY DATA SHEET PAGE 1 Product Name: TECHNI-HIB 377 Section: 01 PRODUCT IDENTIFICATION 505-393-7751 Emergency Telephone UNICHEM INTERNATIONAL INC. Previous Version Date 3/03/92 P.O. BOX 1499 707 N. LEECH Date Prepared 9/21/93 HOBBS, NM 88241-1499 Version: 0000003 Product Name: TECHNI-HIB 377 Trade Name: Corrosion Inhibitor Chemical Description: Proprietary blend of cationic amines in water and alcohol Section: 02 HAZARDOUS INGRETIENTS Component Name CAS# % Range 00067-56-1 < 20% methanol \_\_\_\_\_ Section: 03 PHYSICAL DATA Freezing Point: 1 Deg.F. Specific Gravity(H2O=1) : 0.950 Solubility in water: Soluble Appearance and Odor: Clear, yellow liquid; alcohol odor. Section: 04 FIRE AND EXPLOSION HAZARD DATA Flash Point (Test Method): 99 Deg.F TCC Extinguishing Media CO2, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal. Special Fire Fighting Frocedures Do not enter confined fire space without proper personal protective equipmen. including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away. Unusual Fire and Explosion Hazards Treat as an extremely flammable liquid. This material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling

ection: 04 FIRE AND EXPLOSION HAZARD DATA CONTINUED		
point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.		
ection: 05 HEALTH HAZARD DATA	· · · · · · · · · · · · · · · · · · ·	
Effects of Overexposure		
Eye Contact: may cause moderate irritation, including		
burning sensation, tearing, redness or swelling.		
Skin Irritation: may produce skin irritation. Skin Absorption: exposure to this material can result in		
absorption through skin causing health hazard.		
Inhalation: overexposure may cause coughing, shortness of		
breath, dizziness, intoxication, collapse,		
unconsciousness, cardiac depression, optic complications and death.		
Ingestion: may cause acidosis, narcosis, nausea, ocular		
toxicity ranging from diminished visual capacity to		
complete blindness, and death.		
Emergency and First Aid Procedures	5 -	
	····	-
SKIN Wash with soap and water. Remove contaminated clothing and		
launder contaminated clothing before reuse. Get medical	:	
attention if redness or irritation develops.		
EYES		
Flush eyes immediately with large amounts of water for at		
least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.		
INHALATION		
Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.		
INGESTIC		
Call a physician immediately. Give victim a glass of water.		
Do NOT induce vomiting unless instructed by a physician or		
poison control center. Never give anything by mouth to an unconscious person.		
ction: 06 REACTIVITY DATA		
table (Y=Yes/N=No): Y		

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MATERIAL SAFETY	DATA SHEET PAGE 3
Product Name: TECHNI-HIB 377	
Section: 06 REACTIVITY DATA	CONTINUED
Incompatibility (Materials to Avoid)	
Avoid contact with strong oxidizing agents and strong mineral acids.	s, strong alkalies,
Hazardous Decomposition Products	
Thermal decomposition or combustion may pr carbon monoxide and carbon dioxide.	oduce smoke,
Hazardous Polymerization May Occur(Y=Yes/N=	<u>NO): N</u>
Hazardous Polymerization Conditions to A None	void
Section: 07 SPILL OR LEAK PROCEDURES	
Steps to be Taken if Material is Released of Eliminate sources of ignition. Persons not personal protective equipment should be ex- of spill until clean-up has been completed of spill if possible to do so without hazar ial from entering sewers or watercourses. In ventilation. Contain spilled materials with Recover undamaged and minimally contaminate reuse or reclamation. Place all collected r absorbents into DOT approved containers. Advise authorities. If this product is an H substance (see Section 10), notify the U.S. National Response Center. Additional notifies to SARA Section 302/304 (40 CFR 355) may all Waste Disposal Method Treatment, storage, transportation and disp accordance with EPA or State regulations un the Resource Conservation and Recovery Act	wearing suitable cluded from area . Shut off source rd. Prevent mater- Provide adequate h sand or earth. ed material for material and spill EPA hazardous .EPA and/or the ication pursuant lso be required.
ection: 08 SPECIL PROTECTIVE INFORMATION	
Respiratory Protection	
If workplace exposure limit(s) of product of is exceeded, an NIOSH/MSHA approved air sur is advised in absence of proper environment regulations also permit other NIOSH/MSHA re (negative pressure organic vapor type) und conditions. Engineering or administrative of be implemented to reduce exposure.	pplied respirator tal control. OSHA espirators er specified
Ventilation	
The use of mechanical dilution ventilation whenever this product is used in confined s	

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Product Name: TECHNI-HIB 377

### Section: 08 SPECIAL PROTECTIVE INFORMATION CONTINUED

above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

Protective Gloves

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

Eye Protection

Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Emipment

Eye wash and safety snower

Section: 09 SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.

### Other Precautions

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes. FOR INJUSTRIAL USE ONLY

Section: 10 REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III

Section 302/304-Extremely Hazardous Substances (40 CFR 355) SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). These values are subject to change and the regulations should be consulted to verify current statutory

### ,. MATERIAL SAFETY DATA SHEET PAGE

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Product Name: TECH	NI-HIB 377			
ection: 10 REGULATOR	Y INFORMATION	CONTINUED		
requirements.				
	esent in this produ	ct at a level w	hich	
	orting under the st			
Component Name			RQ TPQ % Rand	те
**NONE**				
Section 311/312 Ch	emical Inventory Rep	porting Requirer	nents (40 CFR 370)	
_	ndments and Reautho:		· · · · · · · · · · · · · · · · · · ·	
	n of reports (chemic			
	tate Emergency Respo			
	e Committee and the and health hazards	7		
are:	and heatth hazards	relaced to this	product	
X Acute Health Ha	ard	Sudden Release	of Pressure X Fir	
X Chronic Health H		Reactive		e
	_			
	Toxic Chemicals			
_	ins the following t		subject	
	equirements of Sect		5 1000	
	; and Community Righ ; information should			
· ·	ied and distributed			
Hoppo chat are cor	Ted and arbitrated	TOL CHIS MILLER	101.	
Component Name			CAS # % Range	
methanol			00067-56-1 < 20%	
	NWD 202			
CERCLA, 40 CFR 261	AND 302 Environmental Respo	nse Compensati	on and	
-	980 (CERCLA) requir	-		
-	Center 1-800-424-88			
	es equal to or grea			
quantities (RQs) l	isted in 40CFR 302.	4. Values are g	iven in	
-	ponent and not the			
	subject to change a			
should be consulte	d to verify current	statutory leve	ls.)	
Component Name			CAS # CERCLA RQ	
methanol			00067-56-1 5000	
HA Exposure Limits				
component Name				
ethanol	va/va. 200 0			<b></b>
TWA ppm: 200.0 TWA	MG/M3: 260.0 STEL	ppm: 250.0 ST	EL MG/M3: 310.0 Skin	n: X
tional Fire Protect				_
2 Health	<u>3</u>	Fire		
0 Reactive		Other		
partment of Transpo	rtation Shipping In	formation		
			<u> </u>	
	rtation Shipping In : Flammable liquids			

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MATERIAL SAFETY DATA SHEET

Product Name: TECHNI-HIB 377

Section: 10 REGULATORY INFORMATIO	N <u>CONTINUED</u>	ĺ
Hazard Class: 3 Packaging Group: PG III Contains: methanol	Identification: UN1993	· ',
Hazardous Substance RQ: 25000# Labels: Flammable liquid	Emergency Response Guide Number: 27	
Toxic Substances Control Act (TS		
This product (or components if ) compliance with TSCA.	product is a mixture) is in	
Section 10 information is to rep safety data sheet for this produ 		
While UNICHEM INTERNATIONAL beli		

PAGE 6

correct, UNICHEM INTERNATIONAL expressly disclaims liability for any loss or injury arising out of the use of this information or the use of any materials designated.

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END OF MSDS

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RCV BY: XEROX TELECOPIER 7010 ; 3-21-80	23:19AM ; AGRI- <u>EMPRE</u>	15058856133→ SSA	44089;#1 2]001/003
09/28/96 11:10 15058856133	KCK	AGRI-EMI	PRESA
Material Safety Da	ta Sheet		
	AND	7/00-	

For more detailed information on the hazards of this product, contact Regulations Compliance Department or Medical Services Department at the address above. Technical Information Bulletin is also available. For emergency information, telephone (405) 270-1313 any time.

### PRODUCT IDENTIFICATION

Conditions

To Avoid:

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Brand Name		State
· · · · · ·	muriate of potash	Melting Poin
Chemical NamePot	assium chloride	Boiling Poir
Common NameMui	riate of potash	Color
FormulaKCl	1	أَقْلُون
DOT Proper		Bulk Densit
Shipping NameNot	applicable	Weight Per
DOT Hazard		Specific Gra
ClassNot	applicable	Water Solut
DOT I.D. NumberNot	applicable	Flash Point
Reportable Quantity (RQ)Not	applicable	pH
CAS Number744	7-40-7	

Contact with incompatible materials.

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State	PHYSICAL AND CHEMICAL PROPERTIES
, , ,	Melting Point C.776Boiling Point C.1411Color.1411Color.White/brownishOdorBulk Density, lb/cu. ft.67Weight Per Gallon.Not applicableSpecific Gravity @ 20C.2Water Solubility, % By Wt. @ 20C.25.5

Chemical Name	Common Name	CAS Number	Hazard
Potassium chloride	Muriate of potash	7447-40-7	Irritant to the eyes, skin and gastrointestinal tract.
10			

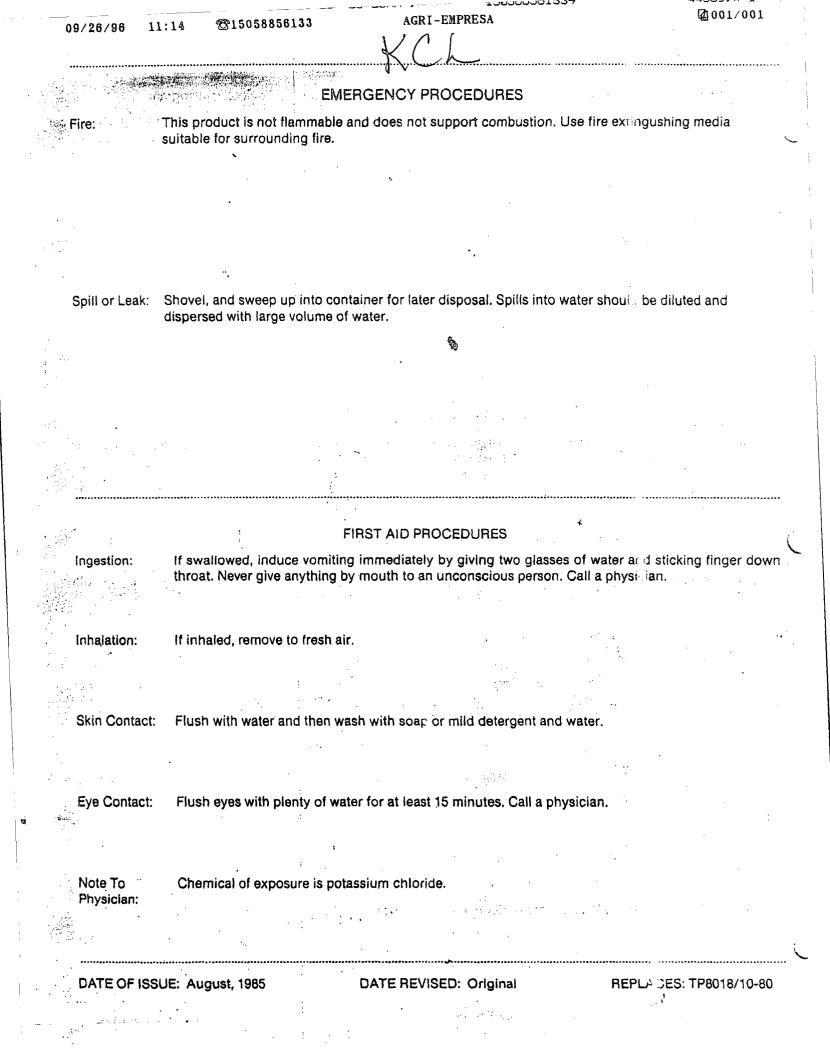
### PHYSICAL HAZARD INFORMATION

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÷ м.	Explosive:	No .	Upper Explosive Limit:	Not applicable	Lower Explosive Limit:	Not applicable
	Pyrophoric:	No				
	Flammable:	No	Flammability Class:	Not applicable		
	Combustible	No	Organic Peroxide:	No		
	Oxidizer:	No	Compressed Gas:	No		
•	Reactivity:	No		. •	:	
	Incompatibil	ities: Brominetrif	luoride, potassium perm	anganate and sulfuri	c acid.	
Ú	Hazardous Decompositi	None. on:				

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	ntial Carcinogen		Program
Or Carcinogen			For Research On Cance
	· · ·		
	PRECAUTIONS FOR SAFE HAN	DLING AND USE	
Avoid contact with e			
Wash thoroughly aft Store in a dry place.		`,	
	· · · · ·		
-			
·			
	SPILL AND LEAK PROC	CEDURES	
Soil Release:	Shovel and sweep up into a container. Reclair permitted by federal, state and local regulatio		o in industrial sewer as
Water Spill:	Dilute and disperse with water jets, propellers	or similar devices.	
`ir Spill:	Let settle. Treat as appropriate for Soil Releas	e or Water Spill.	
Occupational Spill:	Shovel and sweep up into a container. Reclair federal, state and local regulations.	n for salvage value or dispos	se ( in accordance with
RCRA Waste Numbér:	Not applicable.		
EN	IGINEERING CONTROLS AND PERSON	AL PROTECTIVE EQUIP	ME: T
Ventilation:	Use local extracts or general dilution ventilati	on techniques.	
Respirator:	Use NIOSH/MSHA approved dust type respir	ator.	
Eye Protection:	Wear safety goggles or safety glasses.		
Gloves:	No special requirements. Ordinary work glov	es.	
C ang:	No special requirements. Wear easily washabl	e clothing. Change daily. Wa	sh clothing before reuse.
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Corporation

# MATERIAL SAFETY DATA SHEET

EUROCHEM DIVISION INDUSTRIAL CHEMICALS DIVISION PETRECO DIVISION POLYMERS DIVISION TRETOLITE DIVISION

1. CHEMICAL PRODUCT AND COMPANY IDENTIFI	CATION	
PRODUCT NAME:	TRETOLITE (R) SR	W0029C
IDENTIFICATION NUMBER:	SRW0029C	
PRODUCT USE/CLASS:	Scale Remover	
MANUFACTURER/SUPPLIER	EMERGENCY TELE	EPHONE NUMBERS (24 HOUR):
Petrolite Corporation 369 Marshall Ave St. Louis, Mo 63119-1897 CUSTOMER CARE: 1-800-872-1916 8:00am-5:00pm Monday-Friday (CST)	Chemtrec: Canutec:	800-424-9300 613-966-6666
Preparer: Gary Morris	Prepare Date:	12/22/94
Title: Product Manager	Supercedes Date:	03/11/94
	Date Printed:	08/16/95

ITEM	HAZARDOUS INGREDIENTS CAS #						WT/	WT %
01 02					Trade Se 7664-		l	0-30 0-60
ITEM	TLV-TWA	ACGIH TLV-STEL	PEL-TWA	OSHA PEL-C	EIL	1	P. NY TWA	SKIN
01 02	N.E. 1mg/m3	N.E. 3mg/m3	N.E. 1mg/m3	N.E. N.E.		N.E. N.E.		N N
This pro	duct contains the	following NON-HAZA	ARDOUS COMPONEN	TS:				
	CHEMICAL N	AME				CAS	NUMBE	ER
. <u></u>	Water					7732-	18-5	

 HIS MSDS PRODUCED BY PETROLITE CORPORATION, ST. LOUIS, MO.
 CONTINUED ON NEXT PAGE

 CODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE LAST PAGE
 Page 1

Product Name:	TRETOLITE (R) SRW0029C	Date Prepared:	12/22/94
Product Number:	SRW0029C	Supersedes:	03/11/94

### 2. COMPOSITION/INFORMATION ON INGREDIENTS - continued

(See Section 16 for abbreviation legend)

### SECTION 3 - HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: Appearance: Yellow liquid

Odor: Pungent

Corrosive to skin and eyes. Irritating to the respiratory tract.

EFFECTS OF EXPOSURE - EYE CONTACT:

Corrosive to the eyes! Direct contact with eyes will cause severe irritation and may lead to burns and permanent eye damage. Mists and vapors may cause moderate to severe eye irritation.

**EFFECTS OF EXPOSURE - SKIN CONTACT:** 

Contact with skin can produce severe irritation or burns with possible in-depth injury.

EFFECTS OF EXPOSURE - INHALATION:

Inhalation may cause intense irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated, or high exposures may cause chemical pneumonitis and, in extreme cases, pulmonary edema.

**EFFECTS OF EXPOSURE - INGESTION:** 

Harmful if swallowed. Corrosivel May cause severe irritation or burns to the mouth and the gastrointestinal tract. In extreme cases may cause liver and kidney damage.

EFFECTS OF EXPOSURE - CHRONIC EFFECTS: No known information.

EFFECTS OF EXPOSURE - CARCINOGENICITY: No known information.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation, Eye Contact

### **SECTION 4 - FIRST AID MEASURES**

### EYES:

If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

SKIN:

In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. If rash, irritation or burns develop, consult a physician. Launder clothing before reuse.

Product Name:	TRETOLITE (R) SRW0029C	Date Prepared:	12/22/94
Product Number:	SRW0029C	Supersedes:	03/11/94

### SECTION 4 - FIRST AID MEASURES - continued

### INHALATION:

If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

### INGESTION:

If ingested, DO NOT induce vomiting. If conscious, drink 8-10 oz. of water promptly. Call a physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsion may be necessary.

Flammable Limits:       LEL: N.D.       UEL: N.D.         Autoignition Temperature:       N.D.       N.D.         EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog       HAZARDOUS COMBUSTION PRODUCTS:         Oxides of phosphorous. Oxides of carbon.       FIRE-FIGHTING PROCEDURES AND EQUIPMENT:         Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive	Flashpoint and Method:	>200 F (>93 C) SFCC AST	M D-3828
EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog HAZARDOUS COMBUSTION PRODUCTS: Oxides of phosphorous. Oxides of carbon. FIRE-FIGHTING PROCEDURES AND EQUIPMENT:	Flammable Limits:	LEL: N.D.	UEL: N.D.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of phosphorous. Oxides of carbon. FIRE-FIGHTING PROCEDURES AND EQUIPMENT:	Autoignition Temperature:	N.D.	ann an Anna an
and a construction of the state	FIRE-FIGHTING PROCEDURES ANI	D EQUIPMENT:	pressure-demand or other positive
	UNUSUAL FIRE AND EXPLOSION		

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:

Use personal protective equipment as necessary. Absorb with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations.

LARGE SPILLS:

Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Absorb residue with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations. Use personal protective equipment as necessary.

OTHER: No known information.

Product Name:	TRETOLITE (R) SRW0029C	Date Prepared:	12/22/94
Product Number:	SRW0029C	Supersedes:	03/11/94

### SECTION 6 - ACCIDENTAL RELEASE MEASURES - continued

### SECTION 7 - HANDLING AND STORAGE

### HANDLING AND STORAGE:

Avoid breathing vapor and contact with eyes, skin and clothing. Keep container closed when not in use. Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### **RESPIRATORY PROTECTION:**

When concentrations exceed the exposure limits specified, use of a NIOSH approved full facepiece organic vapor/acid gas cartridge respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece supplied air respirator or a Self Contained Breathing Apparatus (SCBA) may be necessary.

### **PERSONAL PROTECTION:**

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing. Safety shower and eyewash station should be located in immediate work area.

### **ENGINEERING CONTROLS:**

Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Product Name:	TRETOLITE (R) SRW0029C	Date Prepared:	12/22/94
Product Number:	SRW0029C	Supersedes:	03/11/94

Solubility in Water:	Soluble
Density @ 60 F (16 C):	10.49 lb/USgal
Specific Gravity @ 60 F (16 C):	1.26
Flash Point SFCC ASTM D-3828:	>200 F (>93 C)
Boiling Range ASTM D-86:	N.D.
Vapor Pressure:	N.D.
Pour Point ASTM D-97:	-25 F
pH @ 5.0% in 75/25 Isopropanol/Water:	N.D
Viscosity ASTM D-445:	
@ 60 F ( 16 C)	41 SUS
@ 30 F (- 1 C)	53 SUS
@ 0 F (-18 C)	91 SUS
Freezing Point:	N.D.
Odor Threshold:	N.D.
Evaporation Rate:	Is slower than Ether
Vapor Density:	Is heavier than air
Coefficient of Water/Oil Distribution:	N.D.
Physical State:	N.D.

(See Section 16 for abbreviation legend)

### SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Keep away from strong oxidizing agents. Contains a strong mineral acid which is highly reactive with metals, metal oxides, hydroxides, amines, carbonate or other alkaline materials. May react with organic chemicals. This material is highly corrosive and may react with metals to produce flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: No known information.

THIS MSDS PRODUCED BY PETROLITE CORPORATION, ST. LOUIS, MO.

CONTINUED ON NEXT PAGE Page 5

Product Name:	TRETOLITE (R) SRWOO	29C		Date Prepared:	12/22/94		
Product Number:	SRW0029C			Supersedes:	03/11/94		
SECTION 11 - TOXICOLOGICAL INFORMATION							
		PRODUCT TOX		1ATION			
No know	n information				· · · · · · · · · · · · · · · · · · ·		
EYE IRRITATI No known inf	ON SCORE(S): ormation.						
SKIN IRRITAT No known inf	ION SCORE(S): ormation.						
OTHER: No known infe	ormation.						
		COMPONENT TO	XICOLOGICAL INFOR	MATION:			
Glycolic acid Phosphoric ac Water	id	L <u>D50 Dermal</u> N.D. 2740 mg/kg-RB N.D.	1.95 g/kg-R 1530 mg/kg-R	LC50 Inhalation 7.7 mg/I/4H-R N.D. N.D.			
LEGEND:	R = Rat RB = Rabb M = Mous GP = Guine	e					
SECTION 12 -	ECOLOGICAL INF	ORMATION			en ang tina ang ang ang ang ang ang ang ang ang a		
	INFORMATION: COTOX* Reports f	or many products.	Please call for more in	nformation.			
SECTION 13 -	DISPOSAL INFORI	MATION					
DISPOSAL IN Dispose of ma		with applicable fee	deral, state and local r	egulations.			
<u></u>			7 <u></u>	945 Torras			
HIS MSDS PROI	IIS MSDS PRODUCED BY PETROLITE CORPORATION, ST. LOUIS, MO. CONTINUED ON NEXT PAGE Page 6						

Product Name:	TRETOLITE (R) SRWOO	29C	Date Prepared:	12/22/94
Product Number:	SRW0029C	· · · · · · · · · · · · · · · · · · ·	Supersedes:	03/11/94
SECTION 14	TRANSPORTATIC	N INFORMATION		
U.S. DEPART	MENT OF TRANSP	ORTATION (D.O.T.) INFORMA	TION:	
Proper Shippi	ng Name: Corrosiv	e liquid, n.o.s.		
Technical Des	cription: (contain	s Phosphoric and Glycolic Aci	(t	
Hazard Classe	s: Primary: 8 Se	condary: N.A. Tertiary: N.A	λ.	
UN/NA Numb	er: UN1760 Pa	cking Group: III D.O.T. Eme	ergency Response Guide: 060	)
Marine Polluta	nt: N.A.			
INTERNATION	IAL MARITIME UK	E * "!IZATION (I.M.O.) INFORM	IATION:	
Proper Shippi	ng Name: Corrosiv	e liquid, n.o.s.		
Technical Des	cription: (contain	s Phosphoric and Glycolic Acid	1)	
Hazard Classe	s: Primary: 8 Se	condary: N.A. Tertiary: N.A	<b>.</b>	
UN/NA Numb EMS Number:		cking Group: III IMDG Code	Page: 8147	
MFAG Table N	lumber 1: 760 Mi	AG Table Number 2: 700		
Marine Polluta	nt: N.A.			
Schedule 'B' I	lumber: N.D.			
		OF DANGEROUS GOODS (T.D	.G.) INFORMATION:	
	ig Name: Corrosiv	•		
Technical Des	cription: (contains	s Phosphoric and Glycolic Acid	()	
Hazard Classe	s: Primary: 8 Se	condary: 9.2 Tertiary: N.A.		
UN/NA Numb	er: UN1760 Pa	cking Group: III		•

Product Name:	TRETOLITE (R	) SRW0029C	Date Prepared:	12/22/94
Product Number:	SRW0029C		Supersedes:	03/11/94
SECTION 14	- TRANSPOI	RTATION INFORMATION - continued		e an an Araba an Arab
MISC. SHIPP	ING INFORM	ATION:		
Petrolite Labe	l Codes:			
D.O.T.:				
Warning Labe	el: 008	Corrosive Liquid - logo		
Shipping Stic		Corrosive liquid, n.o.s.(contains Phosph	oric and Glycolic Acid) U	N1760
I.M.O.:				
Warning Labe	el: 008	Corrosive Liquid - logo		
Shipping Stic	ker: 735	Corrosive liquid, n.o.s.(contains Phosph	oric and Glycolic Acid) U	N1760
T.D.G.:				
Warning Labe	el: N.A.			
Shipping Stic	ker: N.A.			
Other Labels:				
Add-on Label	6: N.A.			
NFPA Label:	817	NFPA Label Health = 3 Flammability = 1	Reactivity=0 Special=0	COR
MGD Label:	А			
National Moto	or Freight			

## SECTION 15 - REGULATORY INFURMATION

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CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES:

The Petrolite product contains the following listed hazardous substances subject to the release reporting requirements of the United States Environmental Protection Agency (EPA) regulation, 40 CFR Part 302, pursuant to the Comprehensive Environment Response, Compensation and Liability Act of 1980 (CERCLA). The Reportable Quantities (RQs) are presented in pounds of listed hazardous substance. The RQ is also calculated in gallons of equivalent product.

roduct Name:	TRETOLITE (R) SRW0029C		Date Prepared:	12/22/94	
oduct Number:	SRW0029C		Supersedes:	03/11/94	-
SECTION 15	5 - REGULATORY INFORMATION - co	ntinued	a 14 augusta galactica (h. 1907) 19 augusta galactica (h. 1907) 19 augusta (h. 1907)		
Chemical Na Phosphoric a		CAS Number 7664-38-2		, GAL ,625	
This Petrolite reporting rec the Superfur Threshold Pl the RQ or TF	EMELY HAZARDOUS SUBSTANCES a e product contains the following listed quirements of the United States Enviro and Amendments and Reauthorization A anning Quantities (TPQ's) are calculat PQ, in pounds, for each listed EHS. No e Minimis levels.	Extremely Hazardous Sub nment Protection Agency Act of 1986 (SARA). The ed in gallons of equivalent	bstances (EHS's)s (EPA) regulation Reportable Quan t product. Each er	40 CFR Pa tities (RQ's ntry corres	rt 304 of ) and the ponds to
Chemical Na	me	CAS Number		TPQ#	TPQ
					GAL
SARA 311/3 This Petrolite requirements	RA Extremely Hazardous materials pro 12: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health	lowing hazard and physica			_GAL
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health quid, Mixture ION 313: e product contains the following listed	lowing hazard and physics pursuant to Sections 311 toxic substances subject	al categories subj and 312 of SAR/	Α.	eporting
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite regulation 40	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, mediate Health quid, Mixture ION 313: e product contains the following listed O CFR Part 372 pursuant to Section 3	lowing hazard and physics pursuant to Sections 311 toxic substances subject 13 of SARA.	al categories subj and 312 of SARA to the reporting r	equirement	eporting s of EPA
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite regulation 40 Chemical Na	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health quid, Mixture ION 313: e product contains the following listed 0 CFR Part 372 pursuant to Section 3 me	lowing hazard and physics pursuant to Sections 311 toxic substances subject 13 of SARA.	al categories subj and 312 of SAR/	Α.	eporting s of EPA
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite regulation 40 Chemical Na Phosphoric a	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health quid, Mixture ION 313: e product contains the following listed 0 CFR Part 372 pursuant to Section 3 me	lowing hazard and physics pursuant to Sections 311 toxic substances subject 13 of SARA.	al categories subj and 312 of SARA to the reporting r <u>AS Number</u> 7664-38-2	equirement Wt/Wt 9 32 %	eporting s of EPA
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite regulation 40 Chemical Na Phosphoric a	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health quid, Mixture ION 313: e product contains the following listed 0 CFR Part 372 pursuant to Section 3 me	lowing hazard and physica pursuant to Sections 311 toxic substances subject 13 of SARA. C e among the top five comp	al categories subj and 312 of SARA to the reporting r AS Number 7664-38-2 conents in this pro	equirement Wt/Wt 9 32 %	eporting s of EPA
SARA 311/3 This Petrolite requirements Hazard: Imn Physical: Lic SARA SECTI This Petrolite regulation 40 Chemical Na Phosphoric a NEW JERSE The following	112: e product has been assigned to the fol s of EPA regulation 40 CFR Part 370, nediate Health quid, Mixture ION 313: e product contains the following listed 0 CFR Part 372 pursuant to Section 3 me	lowing hazard and physica pursuant to Sections 311 toxic substances subject 13 of SARA. C e among the top five comp	al categories subj and 312 of SARA to the reporting r <u>AS Number</u> 7664-38-2 conents in this pre	equirement Wt/Wt 9 32 %	eporting s of EPA

Product Name:	TRETOLITE (R) SRW0029C	Date Prepared:	12/22/94
roduct Number:	SRW0029C	Supersedes:	03/11/94
SECTION 15	- REGULATORY INFORMATION - continue	ed	
Chemical Na		CAS Number	
Water		7732-18-5	
·····			
		- in the second of this second is	
	e product contains the following listed air to de of Regulations, Title 17 and 26, Subcha		
Information a	and Assessment Act of 1987.		
Chemical Na	me	CAS Number	Wt/Wt %
Phosphoric a	cid	7664-3 <b>∂</b> -2	32 %
	SUBSTANCES CONTROL ACT: or its components, if a mixture, are listed	on the Toxic Substance Control Act (	TSCA) inventory
	•		
•	contains the following chemical substance rted from the United States:	es subject to the reporting requirement	ts of TSCA Section
·			
Chemical Na		CAS Number	
1013	CA 12(b) chemicals are present in the proc		
	******		
INTERNATIO	NAL REGULATIONS:		
	MHMIS.		
	Safety Data Sheet has been prepared in c	ompliance with the Controled Product	Regulations
lf the Canadi	an Hazardous Products Act and/or the Cor	trolled Product Regulations apply to t	he chemical product
	ion 1 of the Material Safety Data Sheet, th		
	as it relates to information required to be d cessary to conform to such law and/or reg	-	ns, is amended to the
the extent ne			
	WHMIS CLASS: E		
	DOMESTIC SUBSTANCE LIST (DSL):		
	, or one or more of its components, if a mi		
	cept if the product or any of its componen uary 1, 1987 and July 1, 1994, in which (		
	er New Substances Notification (NSN) Proc		
IS MODS PD			

DUCED BY PETROLITE CORPORATION, ST. LOUIS, MO.

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i.

Product Name:	TRETOLITE (R) SRW0029C		Date Prepared:	12/22/94
Product Number:	SRW0029C	Supersedes:	03/11/94	
SECTION 16	OTHER INFORMATION			<u> </u>
CALIFORNIA No known inf	PROPOSITION 65: ormation.			
NFPA: Health:		3		
Flammabili		1		
Reactivity: Special:		0 COR		
LEGEND:	N.A Not Applicable, N.E Not Established N.D Not Determined	l,		
REVISION SU	MMARIES:			······
File 837				

The information and recommendations contained hereon are believed to be accurate and reliable as of the date issued. However, we do not warrant their accuracy or reliability.

e only warrant to you, but no other persons, that the product referenced herein shall conform to our quality assurance specifications for the product on the date of shipment to you. WE EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Any technical advice, information or recommendation given to you is given gratis without any warranty whatsoever as to the advice, information or recommendation given or results obtained.

You shall assume all risks and shall be solely responsible for the results obtained from the storage, handling or use of the product and any information or recommendation regarding the product, whether alone or in combination with other substances.

UNDER NO CIRCUMSTANCES SHALL WE BE LIABLE FOR ANY ECONOMIC, CONSEQUENTIAL (INCLUDING LOST PROFITS OR SAVINGS) OR INCIDENTAL DAMAGES, EVEN IF WE ARE INFORMED OF THEIR POSSIBLITY, EXEMPLARY OR PUNITIVE DAMAGES, REGARDLESS OF THE FORM OR ACTION, WHETHER IN CONTRACT OR TORT, INCLUDING OUR COLE OR JOINT NEGLIGENCE AND STRICT LIABILITY.

### MATERIAL SAFETY DATA SHEET POWER KLEEN I

	U HM U HM	IS HEALTH HS FLAMMABILITT IS REAUTIVITT IS PERSONAL PROTECTION
SECTION I - IDENTIF MANUFACTURER'S NAME ADAMS CHEMICAL & EQUI	ICATION	
PHONE NUMBER	-MENT 60.;	INC.
REVISED DATE JUNE 1992 TRADE NAME POWER KLEEN 1 CHEMICAL FAMILY BIODEGRADABLE INDUSTR. CAS NUMBER None CHEMICAL FORMULA BLEND	IAL DETEKG	ETN I
SECTION 11 - HAZARDOUS 1	NGRÉDIÈNIS	
HAZARDOUS COMPONENTS & TEV (Un		PRUD. DAD #
SUBIUM INIPULY PHUSPHAIE CONF. NONE LISIED		iisərzə i
""XIC SUBSIANCES CONTROL ACT 40 CFR 710. Sou is product assure that all chemical ingredient with Section 8(0), or are otherwise in compliand Control Act.	ts included	u are în compliance
BECHION III - PHYSICAL SECTION III - PHYSICAL	LUAIA	
BUILING POINT(F) NUT APPLICABLE FREEZING POINT (F) NUT APPLICABLE VAPOR PRESSURE (MM Hg) NUT APPLICABLE VAPOR DENSITY (ATF 1) NUT APPLICABLE		· · · ·
SOLUBILITY IN WATER COMPLETE APPEARANCE/ODOR		ER GALLON
I SECTION IV - FIRE AND EXPLOS.	LON HAZARD	
FLASH PUINT NOT FLAMMABLE LOWER FLAME LIMIT NOT APPLICABLE SUPPER FLAME LIMIT NOT APPLICABLE	1	
EXTINGUISHING MEDIA NOT APPLICABLE JUNUSUAL FIRE HAZARD NONE		
SECTION V - HEALTH HA THRESHOLD LIMIT VALUE 5MG/M3 NUSIANCE DUST		

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### MATERIAL SAFETY DATA SHEET FOWER RLEEN 1

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CUIES OF ENIRY	INHALATIONY IRRITANT	SK1N) COHROSiVE	iNarotioN: CORROIVE
HEALIH HAZARUS	Acute, Du memoranes	-	ng To Skin, Byés. di Macoas
JARCINUGENICITI. NU	NTP7 NU	IARC MUNUGR NU	APH5? USHA NEGOLATED _ NO
	Iffitatio S in case o of water uttention Water. if giving tw throat. N	on develops immediat if eye contact, rlus for at least 15 min , for skin, wash th swallowed, induce	h Thmediately with plenty Utes and get medical OFOUGHTY WITH soap and Vomitting immediatery by and sticking illiger down
· · · · · · · · · · · · ·	SECTION VI	<pre>ACTIVITY_DATA</pre>	
	NONE ALS UXIDIZERS CIS From Fire UXIDES OF AILUN, WILL NOT	NITrogen. OCCUR	tais. Xide, Cafbon Mongarde, A
	SECTION VII -	SPILL OR LEAK PROCE	DURE
	in case o		 With thert material and h applicable regulations.
VASIE DISPOSAL METH	ob Hazardous	Waste. Follow Fede	raì anu state keguratrons.
	SECTION VIII	- SPECIAL PROTECTI	UN .
RESPIRATORY PROTECT (ENTILATION MECHANICAL EXHAUST OCAL EXHAUST PROTECTIVE GLOVES TE PROTECTION THER PROTECTIVE SUITPMENT	ION NIÓSH ÁPP RECÓMMEND NOT NORMA NOT NORMA WEAR IMPE GOGGLES O	ROVED DUST AND PART ED LLY NEEDED LLY NEEDED RVIOUS GLOVES	
	SECTION 1X	<ul> <li>SPECIAL HANDLIN</li> <li>SPECIAL HANDLIN</li> </ul>	ie

13/10/1998

### MATERIAL SAFETY DATA SHEET POWER KLEEN I

IF CONTAINER IS OPEN. PRECAUTIONARY MEASURES Avoid contact with skin, eyes, and crothing. Arber nandring this product, wasn hands before eating, drinking, or smoking. If contact occurs, remove contaminated crothing. If heeded, take rissalu action shown in Section V. DUT HAZARD CLASS CURROSIVE, a	
nandring this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated crothing. If heeded, take riscald action shown in Section V. DUI HAZARD CLASS CORROSIVE, a	
contaminated clothing. Il heeded, take ilistalo action shown in Section V. DUL HAZARD CLASS CURROSIVE, a	
action shown in Section V. DOI HAZARD CLASS CURROSIVE, a	
UUT SHIPPING NAME CLÉANING COMPOUND, CORROSIVE GRANULAR, 11.0.8., (CONTAINS SODIUM MEIASILICATE), 8, UNITOR, PGLI, POWER REEEN 1	
DUT REPORTABLE QUANTIT	
(RO)	
UN NUMBER	
NA NUMBER NC. APPEICABLE	
PACKAGING SIZE VARIEU	
DUI LABEL REQUIRED CURROSIVE	
SECTION X - REGULATORY	
n na han na bana da sa	
EPA ACUIE	
EPA CHRUNICNO	
EPA IGNITABILITY NO	
A REACTIVITY	
A SUDDEN RELEASE OF	
PRESSURE NU	
CERULA RU VALUE 10,000 POUNDS BASED ON SODIUM TRIPOLI Phosemene	
SARA (PQ	
5ARA RU	
SARA SECTION 313 NOT LISTED	
EPA HAZARD WASTE # DUD2 CORROSIVE	
CLEAN AIR ACT NOT LISTED	
CLEAN WATER ACT LISTED IN SEC 311	
FOOT NUTES NA - NU APPLICABLE ND - NUT DETERMINED	

(HIS PRODUCT'S SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS in ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. The INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE DAT 'OF THIS PRODUCT. SUCH CONDITIONS SHOULD COMPLY WITH ALL FEDERAL MEGULATIONS UNCERNING THE PRODUCT.

Exxon



# NALCO/EDDONNERVERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, Tx 77487 281-263-7000

 PAGE:
 1

 DATE PREPARED:
 NOV 19, 1993

 MSDS NO.:
 70568000

SURFLO S568

# MSDS NO.: 70568000

# SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME: SURFLO S568** 

CHEMICAL NAME: Not Applicable: Bland

CHEMICAL FAMILY: Surfacant

PRODUCT DESCRIPTION: Clear Light Yellow Liquid

CUNTACT ADDRESS: NALCO/EXXON ENERGY CHEMICALS, L.P. P.O. BOX 87, Sugar Land, Texas 77487-0087

**	EMERGENCY TELEPHONE NUMBERS: (24 Hours)	* *
**	CHEMTREC (800) 424-9300	**
**	NALCO/EXXON ENERGY CHEMICALS (800) IM ALERT	**

NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm M-F) FOR HEALTH AND SAFETY INFORMATION CALL : (713) 263-7000 FOR GENERAL PRODUCT INFORMATION CALL : (713) 263-7000

### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.



NALCO/EXXON ENERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, 1x 7/48/ 281-263-7000

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SURFLO S568 This product is hazardous as defined in 29 CFR1910.1200, based on the following compositional information: OSHA HAZARD COMPONENT Flammable Liquid Methyl Alcohol Eye and Skin Irritant Methyl Alcohol, Aryl Sulfonate Salt Toxic-Systemic via In-Methyl Alcohol gestion, Inhalation, Dermal Methyl Alcohol Methyl Alcohol Vapors Irritant to Eye Methyl Alcohol and Respiratory Tract PEL/TLV Methvl Alcohol

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### SECTION 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage. SKIN CONTACT: Severely irritating; may cause permanent skin damage. Methyl alcohol may be absorbed through the skin which can contribute

to damage of the optic nerve resulting in permanent visual changes, loss of vision or total blindness.

INHALATION:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. This product contains methyl alcohol. Vapor inhalation and/or skin absorption can cause central nervous system effects and blindness. INGESTION:

The main hazard of methyl alcohol arises from its misuse as a drinking substitute for ethyl alcohol. As little as 15 ml (1/2 oz.) of 40 % methyl alcohol has cause death. Sublethal doses of methyl alcohol may damage the optic nerve which can result in permanent visual changes, including blindness.

### SECTION 4. FIRST AID MEASURES

### EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.



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SKIN CONTACT: Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation persists, seek medical attention. INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposule. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention. INGESTION: If swallowed, and INDIVIDUAL IS CONSCIOUS, induce vomiting. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

### SECTION 5. FIRE FIGHTING PROCEDURES

FLASHPOINT: 94 Deg F. METHOD: TCC FLAMMABLE LIMITS: Not available AUTOIGNITION TEMPERATURE: Not available GENERAL HAZARD Flammable Liquid, can release vapors that form flammable mixtures at temperatures at or above the flashpoint. Toxic gases will form upon combustion. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. FIRE FIGHTING Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Use alcohol type foam or dry chemical to extinguish fire. Respir \_ory and eye protection required for fire fighting personnel. DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS Smoke, fumes, carbon monoxide, carbon dioxide.



## NALCO/EXXON ENERGY CHEMICALS, L. P. P.O. Box 87, Sugar Land, 1x //48/ 281-263-7000

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 70568000

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

### LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise suthorities. Also, if this product is subject of CERCLA reporting (see Section 7) notify the National Response Center. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult in expert on disposal of recovered material and ensure conformity to local disposal regulations.

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Consult an expert on disposal of recovered material and ensure

conformity to local disposal regulations.

### SECTION 7. STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD: Unknown, use proper grounding procedure STORAGE TEMPERATURE, DEG F: Ambient LOADING/UNLOADING TEMPERATURE, DEG F: Ambient STORAGE/TRANSPORT PRESSURE, MMHG: Atmospheric LOADING/UNLOAF NG VISCOCITY, cST: Not available STORAGE AND HANDLING: Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. It is not known if this material is a static accumulator. Therefore, Continues on page 5



NALCO/EXXON ENERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, 1x //48/ 281-263-7000

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SURFLO S568

use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

For open systems where contact is likely, wear chemical resistant gloves, rubber boots, a chemical jacket, chemical goggles, and a face shield. Where contact may occur, wear long sleeves, chemical resistant gloves, and a face shield.

Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

### WORKPLACE EXPOSURE GUIDELINES

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS: A TWA of 200 ppm (260 mg/m3) and a STEL of 250 ppm (310 mg/m3) for Methyl Alcohol (skin).

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, NALCO/EXXON recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES: a TWA of 200 ppm (262 mg/m3), and a STEL of 250 ppm (328 mg/m3) for Methyl Alcohol (skin).



# NALCO/EXXON ENERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, Tx 7/48/ 281-263-7000

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: SOLUBILITY IN WATER, WT. % AT Deg F: VISCOSITY OF LIQUID, CST AT Deg F: SP. GRAV. OF VAPOR, at 1 atm (Air=1): Not available FREEZING/MELTING POINT, Deg F: EVAPORATION RATE, n-B" Scetate=1: BOILING POINT, Deg F:

Soluble 34 at 100 SUS -10 Pour Point Not available Not available

0.97 at 68

### SECTION 10. STABILITY AND REACTIVITY

STABILITY:

Stable HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID INSTABILITY: None MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: Strong Oxidizing Agents HAZARDOUS DECOMPOSITION PRODUCTS: None

### SECTION 11. TOXICOLOGY INFORMATION

PLEASE CALL THE NON-EMERGENCY TELEPHONE NUMBER ON PAGE 1 IF INFORMATION IS REQUIRED.

### SECTION 12. ECOLOGICAL INFORMATION

PLFASE CALL THE NON-EMERGENCY TELEPHONE NUMBER ON PAGE 1 IF INFORMATION IS REQUIRED.

### S OTION 13. DISPOSAL CONSIDERATIONS

PLEASE REFER TO SECTIONS 5, 6 AND 15 FOR DISPUSAL AND REGULATORY INFORMATION.



.CO/EXXON ENERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, Tx 11481 281-263-7000

7 PAGE: DATE PREPARED: NOV 19, 1993 70568000 MSDS NO.:

SURFLO S568

### SECTION 14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S., (METHANOL), 3, UN 1993, III

### SECTION 15. REGULATORY INFORMATION

TSCA:

Components of this product are listed on the TSCA Inventory.

CERCLA:

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling 800-424-8802. The reportable spill quantity of this product is 16,130 pounds. It contains: Methyl Alcohol.

SARA TITLE III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Immediate health, Delayed Health, Fire. This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met. This product contains the following Section 313 Reportable Ingredients: COMPONENT CAS # MAX. % Methyl Alcohol 67-56-1 31.0 SECTION 16. OTHER INFORMATION



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# NALCO/EXXON ENERGY CHEMICALS, L. P.

P.O. Box 87, Sugar Land, 1x //487 281-263-7000

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SURFLO S568	<b># = = = = = =</b> = = = = = = = = = = = = =	
HAZARD RATING SYSTEMS: This information is for people trained in: National Paint & Coatings Association's (NPCA		

National Paint & Coatings Association's (NPCA) Hazardous Materials Identification System (HMIS) National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY
HEALTH	3	3	4 = Severe
FLAMMABILITY	3	3	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

REVISION SUMMARY: Since September 11, 1993 this MSDS has been revised in Section(s): 3 REFERENCE NUMBER: HDHA-A-73103 September 11, 1993

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and eliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

LAST PAGE

FEB-12	2-1996 08:55	BPCI	0	So and B	1 505 396 6146	P.06
	4-10-1995 EB-8100	MATE	RIAL SAFETY	DATA SHEET		Page 1
	Dde 2-2-0 registered trademark of F	Baker Perform	ance Chemicals Inco	rporated		
		SECTIO	VI - IDENTI	TY		
	BAKER PERFORMANCE A Baker Hughes Com 3920 Essex Lane, P Houston, Tx 77227	pany .0. BOX 27714	CHEMTREC 800-231-1	JMBER FOR INFORMATIO	N:	
	CHEMICAL NAME: Che Is	mical Identity A Trade Secret	CHEMICAL FAI	ALLY: Proprietary		
2 ~	SECI	ICI II -	REGULATORY	CLASSIFICATI	ON	
	ENVIRONMENTAL	OCCUP	PATIONAL	TRANSPORTATION		
	RQ= 252 Gallons (Naphthalene) TPQ= None SARA S313: Yes	OSHA X X	Non-Kazardous: NA Kazardous: Yes Acute Chronic	Not Regulated: H Regulated: Yes Combustible Liq N.O.S., (Contain	uid, rs	
	Naphthalene <5% Xylene <3%	NA NA	Fire Pressure Reactive	Xylene, Petrole Distillate), Combustible, NA Ill		
			re listed on the TS			
3	SECT	ION III -	- HAZARDOUS	INGREDIENTS		
	HAZARDOUS COMPONENT	CAS #	PEL(OSHA)* TWA STEL A/L	•	FG* EC, TWA	
	Aromatic Kydrocarb Mixture (Proprietary)	on 64741-67-9	None Establ	ished		
	Petroleum Distilla (Proprietary)	te 64742-06-9			100	
	Naphthalene (~.%)	91-20-3	10 15	10 15		
	Xylene (<3%)	1330-20-7	100 150	100 150		
	*ppm unless otherw	ise indicated;	(C) denotes ceilin	g limit		
4 -	SECTION	IV - PHYS	SICAL & CHEM	ICAL PROPERT	IES	
	Specific Gravity E (H2O=1)	60F: 0.951	pH: 5% of Product:	3.81		
	Density (lbs/gallo	n): 7.918	Viscosity (Meth	od): Not Determined		
	Vapor Density (Air	=1): > 1	Appearance and liquid with aro	Odor: Clear, dark am matic odor	ber	ž
poter						

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	4-10-1995	TERIAL SAFETY DATA S	HEET	Page 2
QUANO	X(R) EB-8100			•
	ode 2-2-0 registered trademark of Baker Perf 8f	ormance Chemicals Incorporated		
4 -	SECTION IV - PH	IYSICAL & CHEMICAL P	ROPERTIES (continu	ed)
یں پیر جو دی میں میں اور اور اور اور			ی سود در از مان های های برای برای و مون وی بوی بود برای می بود برای می بود از ای ای این این ای	
	Solubility: Nat Determined Freezing Point: Not Determined	Stability: Stable		
	Flash Point (Method): 154,4 (		. Nat Detautiond	
	Boiling Point: Not Determined	• •		
	-	Conditions to Avoid: Oxic sparks, or open flame	gizers; neat	
	Vapor Pressure: 0.406 psia (Ro	-		
		noxide; oxides of nitrogen; oxi	ides of sulfur	
	Hazardous Polymerization: Wil			
	Do not enter a fire area with	foam, dry chemical, CO2, water f out proper protective equipment, tained breathing apparatus. Cool Avoid vapors.	including	
	FIRE HAZARD\$: Combustible Liquid. Can form the flash point.	explosive mixtures at temperatur	res at or above	
	Vapors can travel to source o	f ignition and flash back. torch on or near drums, even when	n empty.	
		highly toxic gases may be generations with air.	ated by thermal	
5 ~	SECTION	V - HEALTH HAZARDS		
	irritation. EYE CONTACT: Heavy exposure (	essive inhalation may cause resp may cause irritation of the eyes epeated exposure may cause skin harmful if swallowed.		
	mixture can cause central ner skin, and respirator, tract.	exposure to this an matic hydrod vous system effects and innitation frequent skin contact can remove	on to the eyes,	
	system. It has been reported at concentrations above 15ppm as well as lens opacities. O cause liver and kidney damage		thalene in humans corneal injuries	
	Naphthalene Toxicity Dat Orl - Rat LD50 = 490 mg Skn - Rat LD50 = >2,500 Skn - Rbt LD50 = >20 gm Irritation Open Draize Test	/kg (RTECS) mg/kg (RTECS)		
	Rabbit Skin: 495 mg o Standard Drazie Test	pen (time not given) - Reaction:		
	Xylene (mixed isomers) i	ime not given) - Reaction: Mild s a component of this product. approximately 460 ppm - effects 200 ppm. Indection and/or yomit	Xylene is an eye, begin to occur	1

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### MATERIAL SAFETY DATA SHEET

**DUANOX(R) EB-8100** 

### Caution Code 2-2-0

"AQUANOX" is a registered trademark of Baker Performance Chemicals Incorporated MSDS ID: 6EB048F

BPCI

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5 -	SECTION V - HEALTH HAZARDS (continued)

inhalation or ingestion is central nervous system (CNS) depression. Symptoms include flushing, feeling of heat, tightness in the chest, blurred vision, giddiness, dizziness, loss of coordination and judgment, weakness, shivering, headache, difficulty in breathing, nausea, and vomiting. extreme cases come and death may occur. Other scute symptoms include gastrointestinal disturbances, cardiac irregularities, abdominal pain, and liver and kidney damage. Brief skin exposure may produce irritation and prolonged exposure may produce defatting dermatitis.

Long-term inhalation of xylene has produced hearing loss in laboratory animals (Pryor, GT \*\* al (1987), J. Appl Toxicol, 7(1), pps 272-280). In laboratory animals, xylone has shown to be a teratogin and fetotoxin (Marks, TA, Ledoux, TA and Moore, JA (1982), J. Toxicol. Environ, Health, 9, pps 97-105 -- Shigeta, S et al (1983), Teratology, 28 p 22A -- Ungvary, G and Tatrai, E (1985), Arch. Toxicol, 8, pps 425-430).

Animal Toxicity Rat Oral LD50 3,523 mg/kg (NTP TR 327) Rat Inhalation LC50 - 5,000 ppm/4 Hr (RTECS) Human Dral LDLo - 50 mg/Kg (RTECS) 50 mg/Kg (RTECS) Man Inhalation LCLo - 10,000 ppm/6 Hr (RTECS)

Irritation - Standard Draize Test Rabbit Skin - 100% - Reaction Moderate (RTECS)

Rabbit Eye - 87 mg - Reaction Nild (RTECS) Rabbit Eye - 5 mg/24 Hr - Reaction Severe (RTECS)

This product results from a reaction involving ethylene oxide (EtO). Therefore, it may contain residual amounts of EtO (less than 0.1%) which can accumulate in the container headspace and be released to the ambient environment when opened. This release of EtO would tend to increase when the product is agitated during unloading or blending operations. The Occupational Safety and Health Administration (OSHA) has set the worker exposure level for EtO at 1 ppm (8-hour time weighted average). The STEL is 5 ppm (15 minutes). This standard regulates occupational exposure to EtO from sources including products containing residual EtD. It is the responsibility of the employer to comply with OSHA EtO Standard (29 CFR 1910.1047). The International Agency for Research on Cancer (IARC) has rated EtO as a "Known human carcinogen (Group 1A); human evidence is limited; animal evidence is sufficient". The National Toxilogical Program (NTP) has rated EtO as an "Anticipated Carcinogen". The OSHA action level TWA for EtO is 0.5 mg/m3. The OSHA excursion lovel is 5 ppm as averaged over a sampling period of 15 minutes.

This product results from a reaction involving propylene oxide (PO). Therefore, it may contain residual amounts (less than 0.1%) of un-reacted PO. The PO can accumulate in the container headspace, and can be release to the ambient environment when opened. This release of PO would tend to incre: when the product is agitated during unloading or blending operations. The Occupational Safety and Health Administration (OSHA) has set the worker exposure level for PO at 20 ppm TWA (8-hour Time Weighted Average). The International Agency for Research on Cancer (IARC) has rated PC as a "Possible human carcinogen (Group 28); human evidence is no adequate; enimal evidence is sufficient". The National Toxilogical Program (NTP) has rated PO as an "Anticipated Carcinogen". Reasonable precautions should be taken to reduce worker exposure to the lowest feasible level.

TARGET ORGANS (29 CFR 1910.1200-APPENDIX A):

Eve Hazard Cutaneous Hazard (Skin) Pulmonary Agent (Lungs) Nephrotoxin (Kidney) Hepatotoxin (Liver)

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			MATER	IAL SAFETY (	DATA SHEE	т	. •
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UANOX	(R) EI	B-8100					• .
Caution Cod "AQUANOX" is a reg MSDS ID: 6EB048F			of Baker Performa	nce Chemicals Incorp	porated		
6 -	SE	CTION	VI - EMERGE	NCY & FIRST	AID PROC	EDURES	یں این ہو بین پند یہ ، ، ، شاہ کہ کہ این کار ہے دی ن
		· · · · · · · · · · · · · · · · · · ·					ی این این این این این این این این این ای
	least INHAL respi atter SKIN	15 minutes ATION: Rep ination. If ntion. CONTACT: N tes. Aftern	s. move to fresh air. breathing is diff Remove all contamin	and flush eyes with If not breathing, icult, give oxygen. nated clothing, flus fected area with soa	give artificia Get immediate h skin with wa	l medical ter for 10	
			not induce vomiting	g, seek medical atte	ntion immediat	ely.	
					· · · · · · · · · · · · · · · · · · ·		
7 -	SECI	ION VI	I – PROTECT	IVE EQUIPMEN	T RECOMM	ENDATIONS	
	produ or is	act is used agitated.	in a confined spa	al ventilation is re ce, is heated above controls are not fe r movement.	ambient temper	atures.	
	(reco tempe physi prote indiv	enatures, lo cal conditi active equip ridual susce	xposure levels sho ower atmospheric p ions that may incre oment as described optibility and sen	, no excursions abov uld occur. However, ressure (high altitu case the inhalation below, should be wo sitivity, before res performed per 29 CF	if used at ele des) or any ot exposure, resp rn. Also, due pirators are u	vated her iratory to sed, a	
	RESPI	RATORY	CI	HEMICAL RESISTANT APPAREL	EYE/FACE		
	A X X X C	ls Needed Lir Supplied Lir Purifyin K Full Face Half Face Cartridge on Acid Gas Corganic Va Anmonia	d (SCBA) ng Piece Piece r Cannister	X Gloves Clothing Boots	X Goggles Full Fa	ce Shield	
	safet of pr	y profession	onal should be con	(job safety analysi ducted to determine Subpart I and 29 CFR	the appropriat	e level	
8 -		SECTI	ON VIII - S	PILL & LEAK	PROCEDUR	ES	
	enter upwir pump with (repo 1-800 hazan info WASTE the u	ring a spil and if possil large spil obtable quan 0-424-8802, rdous mater rmation. C E DISPOSAL N User at the	<pre>l/leak area. Elim ble. Shut off lea ls into salvage co clay, sand, or dir ntity) is exceeded Also, in some ju ials are reportabl ontinue to observe METHOD(S): Re-eva time of disposal,</pre>	ng and respiratory p inate ignition source k if it can be done ntainers. Soak up r t and place in salva , report to National risdictions, spills econsult local lea precautions. luation of the product of the classification	es. Approach safely. Dike esidue and sma ge containers. Spill Respons or leaks of an ad agencies for uct may be requ uses, transform	area and Il spills If RQ e Office y further ired by mations,	3 0

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### MATERIAL SAFETY DATA SHEET

# Printed 04-10-1995

- DUANOX(R) EB-8100

### caution Code 2-2-0

"AQUANOX" is a registered trademark of Baker Performance Chemicals Incorporated MSDS ID: 6EB048F

### SECTION VIII - SPILL & LEAK PROCEDURES (continued)

BPCI

hazardous for reasons other than, or in addition to product characteristics. Dispose of all waste and/or containers in accordance with federal, state and local regulations.

REQUIREMENTS FOR TRANSPORTATION, HANDLING AND STORAGE: Transport, handle and store in accordance with OSHA Regulation 1910.106 and applicable DOT regulations.

Avoid inhalation of vapors or mists. Do not get in eyes, on skin or on clothing Keep container closed when not in use. Wear suitable protection for eyes and skin when handling. Use with adequate ventilation. Avoid contact with oxidizers. Store in well-ventilated area. Store in cool, dry area. Control ignition source; keep away from heat, sparks and open flame.

NOTE: The information on this MSDS is based on data which is considered to be accurate. BPCI, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected

with the handling, storage, use or disposal of this product. This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

By: Anita Wright Date: 6/15/94 Supercedes: 3/15/93 Regulatory Information Specialist II

6/15/94 - Updated sections III, IV, V, and VI.



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Page 5.

BAKER CHEMICAL 505 396 6146

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	ON P ADDITIVE - 55 GALLONS	PAGE 1	Cla=Sta XP
HALLIB	AL SAFETY DATA SHEET URTON ENERGY SERVICES REVI AN, OKLAHOMA 73535		Ø .
	PHONE: 405/251-4689 OR 405/25 HOURS: 405/251-3760	1-3569	
* * * * * * * * * * * SECTION I.	- PRODUCT DESCRIPTION * * * *	* * * * * * * * *	
CHENICAL CJGE: CLA-STA XP ADDIT: PKS QTY: 55 GALLON DRUM SERVICE USED: WATER AND SAND			Ø
* * * * * * * * * * * SECTION II	- COMPONENT INFORMATION * * :	* * * * * * * * *	
COMPONENT+ + + + + + + + + + +	+ PERCENT TLU	PEL	
QUATERNARY POLYAMINE * * * * * * * * * * * * * SECTION			
PROPERTY	MEASUREHENT		

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APPEARANCE	R AMBER LIQUID
CEOR	HUSTY (AMINE)
SPECIFIC GRAVITY (H2D=1)	1.139
BULK DENSITY	9,41 L8/GAL
FH	5,3
POLUSILITY IN WATER AT	
/ JEG C. GH5/100ML H20	COMPLETE
\$10DEGRADABILITY	N/B
PERCENT VOLATILES	N/D
EVAPORATION RATE( DUTYL ACETA	TE=1) N/D
VAPUR CENSITY	N/D
VAPOR PRESSURE (MMHG)	N/ 0
BOILING POINT(760 MMHG)	N/D
POUR POINT	<-30 F / <-34 G
FREEZE POINT	N/D
SOLUBILITY IN SEAWATER	NOT EVALUATED
FARTITION COEF (OCTANOL IN 1	ATER) NOT EVALUATED

FPR(704) RATING: - FLAMMABILITY () REACTIVITY () SPECIAL NONE USE WHEER SERAY, FORM, DRY CHEMICAL, OR CARRON DIGVICE. USE WATER SPRAY TO COOL FIRE-EXPOSED SUBFACES. CHE PRITECTIVE MOTHINE AND ATERA/ACHE ADDRIVED SELF-CONTAINED ACATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL. SHAL FIRE AND EXPLOSION HAZARDS: THIS PROJECT IN NOT EXPECTED TO BURN UNLESS ALL THE WATER IS BUTLED AWAY, THE REMAINING AMAZE IGNITABLE. INCOMPLETE THERMAL DECOMPOSITION NAY PRODUCE CAROON COUNTIE, CAROON NEWATOC AND ATTROOPH DATOES,

x 2 x x x x x x x x x ECTION V - HEALTH HAZARO DATA x x x x x x x x CALIFORNIA PROPOSITION 45: . PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. 21a-Sta CARCINGGENIC DETERMINATION: JUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ALCORDING TO : "NTP, IARC, OSHA, OR, ACIGH". the second second · · · · · PRODUCT TOXICITY DATA: ECOTOXICITY MYSIDOPSIS BAHIA: 76-HOUR 300 PPM PRODUCT TLV: NOT ESTABLISHED ----- EFFECTS OF EXPOSURE -----ROUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION, EYE: MAY CAUSE SEVERE IRRITATION WHICH MAY BE PERSISTENT. SXIN: MAY CAUSE TRANSIENT IRRITATION. INHALATION: VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION. INGESTION: CORROSIVE TO MOUTH, ESOPHAGUS, AND STOHACH UPON INGESTION. CHRONIC EFFECTS: NO SPECIFIC INFORMATION IS AVAILABLE ON THE CHRONIC EFFECTS OF EXPOSURE. OTHER SYMPTOMS AFFECTED: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENED BY EXPOSURE TO THIS PRODUCT. . . . - EMERGENCY AND FIRST A1D PROCEDURES --1: IMMEDIATELY FLUSH EVES WITH PLENTY OF WATER FOR AT LEAST 15 NINUTES. SEEK PROMPT MEDICAL ATTENTION. SKINE PROHPTLY WASH SKIN WITH SDAP AND WATER. INHALATION: REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK HEDICAL ATTENTION, INSESTION: GIVE UP TO THE (2) GUARTS OF WATER AND INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH IF PERSON IS DROUSY, UNCONSCIOUS. OR HAS NO GAG REFLEX. SEEK PROMPT MEDICAL ATTENTION.

STABILITY: STABLE CONDITIONS TO AVOID:

HAZARDING DECOMPOSITION PRODUCTS:

NTROOPH OXIDES, CARON OTOXIDE AND/OR CAROON MONIFIE. Hazard polymerization: Unit occur conditions to and/d:

HIT APPLICAPLE.

STEPS TO BE TAKEN IF HATERIAL IS RELEASED OR SPILLED; INSE PROTECTIVE EQUIPHENT. ISOLATE SMILL AND STOP LEAK WHERE SAFE, CONTAIN AND ABSORD SPILL WITH AN INERT HATERIAL. SCOOP UP AND REMOVE, WASTE DISPOSAL HETHOR:

BET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT ABSORBED MATERIAL TO · · · . . SANITARY LENDFILL. \* \* \* \* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \* \* . . . "RATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): JT HORMALLY NEEDED. BUT IF SIGNIFICANT EXPOSURES ARE TO BE ENCOUNTERED THEN THE FOLLOWING TYPE OF RESPIRATOR IS RECOMMENDED: ORGANIC VAPOR CHEMICAL CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER. VENTILATION and the second sec USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. PROTECTIVE GLOVES: IMPERVIOUS RUBBER GLOVES. EYE PROTECTION: USAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT: RUBBER APRON TO PREVENT DIRECT SKIN CONTACT. \* \* \* \* \* \* \* \* \* \* \* \* SECTION IA - SPECIAL PRECAUTIONS \* \* \* \* \* PRECAUTIONARY LABELING CLA-STA XP ADDITIVE - 55 GALLONS 516.004900 WARNING IRRITATING TO EYES AND UPPER RESPIRATORY PASSAGES. MAY CAUSE SEVERE EYE AND SKIN IRRITATION. FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FRUM OXIDIZERS. STORE IN A COOL WELL VENTILATED LOCATION. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVDID CONTACT WITH SKIN, EYES AND CLOTHING, AVOID BREATHING VAPORS. CONTAINER DISPOSITION: IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED. · SIDRE CONTAINER WITH CLOSURES, IN PLACE, OFFER EMPTY CONTAINER TO RECONDI-TIONOR OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS. \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \* \* \* \* \* \* DOT SHIPPING DESCRIPTION: NOT RESTRICTED

. STABILITY: STABLE CONTITIONS TO AVAID:

HATAGONG DECONDICITIES PRODUCTS:

NITABLEN OXIDES, CAREON DIOXIDE AND/OR CAREON HONOXIDE. Hazard Polynerization: UCN"T occur conditions to avoid:

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HEI AMERICANE,

ION VI - REACTIVITY DATA \* #

STEPS TO BE TAKEN IF WATERIAL IS RELEASED ON SPILLED:

WE ANDTENTIVE EQUIPMENT. ISOLATE SALL AND STOP LEAN WERE SAFE. CONTAIN AND ASSARD SALL WITH AN INERT WITERIAL. STOOP UP AND REMOVE. WASTE DISPOSAL NETHOR:

PA SUFLEFUND(SARA) FIRE: N FRED	TITLE III - HA UNEL N REAGI	izaro jego Tve: N	SIFICATION & ASSOCIA ADDIE (INNEDIATE):	ATES INFORMATION
			·	

8. EPA – GENCLA/SUFERFUND, 46 CFR 302 (REPORTABLE SPILL QUANTITY) N/A

C. EM - MAR TITLE III, GER 355 (ENTRIKEL", "MAANNUS SUBSTANCES) PRONECT CONTAINS NO EXTREMELY HAZARONIS COMPONENTS

E COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES Torn yes: offic me eer not acoun not her ne dran he

, EM - REM (INFAMILIE WASTE), AD CTA 241

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A RAZARDOUS WASTE

FORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS SIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN 95 RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE HANY STEVATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR DUBTONER, THERE IS NO GUARANTEE THAT THE HEALTH AND GAFETY PRECAUTIONS RUBGESTED WILL BE PROFER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LIGTED PRODUCT TO DETERMINE AND COMPLY WITH THE DEQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS DIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERCONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROWIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY BERVICES.

HALLIBURTON HOBBS AUG-17-95 WED 4:59 FAX NO. 15053927062 P. 02 MORFLO(R) II SURFACTANT - 5 GALLONS PA6E 1 MATERIAL SAFETY DATA SHEET DATE: 08-17-95 HALLIBURTON ENERGY SERVICES - REVISED DATE 09-04-91 DUNCAN, OKLAHOMA 73536 EMERGENCY TELEPHONE: 405/251-4689 OR 405/251-3569 AFTER 目QUES: 405/251-3760 \* A \* \* \* \* \* \* \* \* \* SECTION I - PRODUCT DESCRIPTION \* \* \* \* \* \* \* \* \* \* \* \* CHEMICAL CODE: MORFLO(R) II SURFACTANT - 5 GALLONS PART NUMBER: 070155890 PKG GTY: 5 GALLON DRUM APPLICATION: NON-EMULSIFIER, DISPERSANT SERVICE USED: CREMICAL SERVICES A A A A A A A A A SECTION II - COMPONENT INFORMATION A A A A A A A A A A A A COMPONENTS + + + + + + + + + PERCENT TLV PEL **ISOBUTANOL** 11-30 % 50 PPM 50 PPM SODIUM ALKYL SULFONATES 11-30 % NOT EST NOT EST \* \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION III - PHYSICAL DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* PROPERTY MEASUREMENT APPENKANCE CLEAR, DARK RED-BROWN LIQUID 3P\*\*\* ALCOHOLIC >F `IEIC OKVAILA (H50=1) 1.050 BULK DENSITY 8.75 1.870百仁 214 9.2-10.8 COLUBILITY IN WATER AT 20 DFG U. GMSZ100ML H20 COMPLETE SIGDEGRADABILITY SLOULY PERCENT VOLATILES 55 EVAPORATION RATE(BUTYL ACETATE=1) N/D JAPOR DENSITY NZD JAPOR PRESSURE (MMHG) NZD JUILING POINT(260 MMHG) -212 F / 100 C TOUR POINT 10 F / -12 C -5 F / 20 C REEZE POINT SOLUBILITY IN SEAGATER > 800,000 SORTLIION COEF (OCTANOL IN WATER) NOT EVALUATED N A A A A A A A A A SECTION IV - FIRE AND EXPLOSION DATA A A A A A A A A A HEPA(704) RATING: HEALTH 2 FLAMMABILITY 3 REACTIVITY O SPECIAL NONE "LASH POINT 95 F Z 35 C FLASH MTHD PHCC UTUIGNITION TEMPERATURE NDFZ ND C CAMMABLE LIMITS (% BY VOLUME) LOWER NZÐ UPPER  $N \neq 0$ XTINGUISHIND MEDIA: SE DATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE. THETAL FIRE FIGHTING PROCEDURES: USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES. FULL PROTECTIVE CLOTHING AND NIDS' APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHT RSONNEL. INUSUAL FIRE AND EXPLOSION HAZARDS: MAY DE IGNITED BY HEAT, SPARKS, OR LAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED

P. 03 HALLIBURTON HOBBS FAX NO. 15053927062 AUG-17-95 WED 5:00 - e multi INJURIES. INCOMFLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR OXIDES. CALIFORNIA PROPOSITION 65: 'ROBUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. ARCINOGENIC DETERMINATION: RODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN "NTP, IARC, OSHA, OR, ACIOH". 'ROBUCT TOXICITY DATA: TOX ORL-RAT L050: 8564 MO/KG TOX IHL-RAT LC50: 8000 PPMZAH TOX SKN-RBT LD50: 3417 MG/KG AQU TLM96: 330-1000 PPM(BROWN SHRIMP) RODUCT TLV: NOT ESTABLISHED EFFECTS OF EXPOSURE -----UUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION, YE: CONCENTRATED SOLUTIONS MAY CAUSE SEVERE BURNS. KIN: MAY BE ABSORBED THROUGH SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS. CONCENTRATED LIQUID MAY CAUSE MODERATE TO SEVERE IRRITATION. I LATION: HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, MEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS. HIGH CONCENTRATIONS CAUSES NARCOSIS. VAPORS. MIST OR SPRAY MAY CAUSE IRRITATION. NGESTION IRRITATION OF THE MOUTH AND THROAT, ABBOMINAL PAIN, NAUSEA AND VOMITING, DIARRHEA, AND COLLAPSE MAY RESULT FROM INGESTION. HRONIC EFFECTS: CHRONIC OVEREXPOSURE MAY CAUSE LIVER AND BLOOD DISORDERS. THER SYMPTOMS AFFECTED: SECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AM EXISTING DERMATTIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTEMA AND INFLAMMATCRY OR FIBROTIC FULMONARY DISEASE. ------ EMERGENCY AND FIRST AID PROCEDURES ------YE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION, <IN: INMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES, SEEK MEDICAL ATTENTION, WASH CLOTHINO BEFORE REUSE. VHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, DIVE ARTIFICIAL RESPIRATION, TRULEABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. JEEK PROMPT MEDICAL ATTENTION. JUESTION: DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO BILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION. \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* <u>\$ECTION VI - REACTIVITY Π</u>άτά \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FAX NO, 15053927062 P. 04 HALLIBURTON HOBBS AUG-17-95 WED 5:01 STABILITY: STABLE CONDITIONS TO AVOID: UCAT, SPARKS AND OPEN FLAME. to DMPATIBILITY (MATERIALS TO AVOID); STRONG OXIDIZERS. HAZARDOUS DECOMPOSITION PRODUCTS: -OXIDES OF SULFUR, CARBON DIOXIDE AND/OR CARBON MONOXIDE. HAZARD POLYMERIZATION: WON'T OCCUR CONDITIONS TO AVOID: NOT APPLICABLE. \* \* \* \* \* \* \* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \* \* \* \* BTEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. OFMOVE IGNITION SOURCES. CONTAIN AND ABSORD SPILL WITH SAND OR OTHER INERT MATERIAL, SCOOP OR SWEEP UP USING NON-SPARKING TOOLS, IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS. JASTE DISPOSAL METHOD: GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE. -\* \* \* \* \* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \* \* \* \* RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): ORGANIC VAPOR CARTRIDGE RESPIRATOR. VENTILATIONE USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR EXPLOSIVE ATMOSPHERES (NEC CLASS I EQUIPMENT). PROTECTIVE GLOVES: NITRILE GLOVES. EYE PROTECTION: UDDGLES AND/OR FACE SHIELD. THUR PROTECTIVE EQUIPMENT: NITRILE COATED CLOTHING FOR REASONABLE PROBABILITY OF LIQUID CONTACT AND REPEATED OR PROLONGED VAPOR CONTACT WITH SKIN. \* \* \* \* \* \* \* \* \* \* \* \* SECTION IX ~ SPECIAL PRECAUTIONS \* \* \* \* \* \* \* \* \* \* PRECAUTIONARY LADELING MORFLO(R) II SURFACTANT - 5 GALLONS 070.155890 WARNING! MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE EYE IRRITATION. MAY CAUSE SEVERE SKIN IRRITATION. FLAMMABLE! FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII, OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM OXIDIZERS. KEEP FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AUDID RREATHING VAPORS. CUNTAINER DISPOSITION: SOTUCE: THIS IS A RETURNABLE, REUSABLE CONTAINER. DO NOT CONTAMINATE. STURE CONTAINER AWAY FROM IONITION SOURCES WITH ALL CLOSURES IN FLACE. RETURN EMPTY CONTAINER FOR REUSE AND/OR CREDIT. \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \* \* \* \* \* \*

 	AUG-17-95 WED 5:02 HALLIBURTON HOBBS FAX NO. 15053927062
19	OBUTANUL SOLUTION - 3 - UN1212 - III
a.	* * * * * * * * A A SECTION XI · ENVIRONMENTAL EVALUATION * * * * * * * * * *
6 P	A SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION Flre: Y - PRESSURE: N - REACTIVE: N - ACUTE (IMMEDIATE): Y - CURONIC (DELAYED): N - MIXTURE OR PURE MATERIAL; MIX
r.	- CRE - CEPCLA (SUPERCUND, 40 CER 302 (REPORTABLE SPILE QUANTITY) - C 350 GALS ISOBUTYL ALCOHOL, U140
) C.	ERGENET CONTAINS NO EXTREMELY MAZARDOUS SUBSTANCES? Product contains no extremely Mazardous components
Ð.	EPA — SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CMEMICALS) Chemical contains no toxic ingredients
ビ.	COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES . Isca yes - cepa ne - mec n/d - acoin n/d - NPR ne - drsh ne
	EPA - RORA (MAZARDOUG WASTE), 40 CFR 261
	IF PRODUCT BECOMES A WASTE, IT DOES MEET THE CRITERIA OF A HAZARDOUS Waste as defined by us epa because of:

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(1) 人名法法法法法法法法法法 化法法 大大大大大大大大大大大大大大大大大大大大、"

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Since of Entry:	sition or Byproduc N MONOXIE ay Occur saith Hazard Inhai te and Chronic) TION: SWI VON INTP: N/F N/F N/F	ISOL ISOL DIS DE, C X Data alion? IO ALLOW ALLOW	ARBON DI Conditions to Ave ING MAY G AND DI VOMITING	STRONG CNIDE & old Skint NO CAUSE AI ARRHEA	NITOGEN 3DOMINAL 1F SWAJ	OXIDE VA	AS PERMANG APORS FROM Ingestion? VES ION. NAUSE XCURS. DO	BURNING.
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Section VII - P	recautions fo	r Safa	Handling an	d Lisa 👘				a <del></del>
Steps to Be Taken in					-			
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Material Safety Data Sheet		U.S. Department of Labor	
May be used to comply with OSHA's Hazard Communication Standard,	· · · · · · · · · · · · · · · · · · ·	Occupational Safety and Health Administration (Non-Mandatory Form)	
2 CRA's nataro Communication Standard, 2 CRA 1910.1200. Standard must be a 197	n stage start i start i	Form Approved	
c_ utted for specific requirements.	an a	OMB No. 1218-0072	
IDENTITY (As Used on Labol and List) ROAD P	RO	Note: Blank spaces are not permitted. If any kern is not information is available, the space must be marked	applicable, or no I to indicate that.
Section I	<u> </u>		
Manufacturer's Name KLEEN PRODUCTS, INC.	and a second	Emergency Telephone Number OKLAHOMA POISON CONTROL 405	/271-5454
Address (Number, Street, City, State, and ZiP Code)		Telephone Number for Information	•
8136 SOUTHWEST 8TH S	TREET	800/391-1792 405/495-1168 FAX	<u>&lt; 495-1175</u>
POST OFFICE BOX 7522	<b>3</b> - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Date Prepared	-
OKLHOMA CITY, OKLAHO	1111	Signature of Preparer (optional)	[
Section II - Hazardous Ingredients/Ide	ntity informatio	50	
Hazardous Components (Specific Chemical Identify:	And an Address of the State		46 (optional)
	• • • • • • • • • • • • • • • • • • •		مالىتىتىتىكتاكتا <del>ت مىسمىرىكى</del> «ا
PETROLEUM DISTILLATE	5. <b>#64747-1</b> 30811_31616_3		
AMYL ACETATB	#628-63-	-7 100 PPM 100 PPM	
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ISOPROPANOL	#67-63-0	0 400 PPM 400 PPM	
NONYLPHENOL ETHOXYLA	TE #26027-	-38-3 N/E N/E	
PETROLEUM HYDROCARBO	N OIL #647	41-89-5 N/E N/E	
	•		
Section III Physical/Chemical Charac	teristics		
Boiling Point	and the states	Specific Gravity (H <sub>2</sub> O = 1)	0.871+-
Vapor Preasure (mm Hg.)	and the second	Melting Point	
<u><u> </u></u>	15.8		N/E
Vapur Density (AIR + 1)	5.0	Evaporation Rate (Juty) Roetate = 1)	N/E
Solutivity in Water parts	ر . بر اد به از از اینه به موال میزوهمه		7 1bs.
COMPLETE		WEIGHT/GALLON	
THICK CREAMY WI	TTH BANANA	PH PH	7.8+-
Section IV - Fire and Explosion Hazard			
lash Point-(Method Used)	<mark>ر المراجع المراجع المحمد ا</mark>	Fiammable Limits	UEL
110 F PM COC	d 1 daga Nu	.8% By Volume in Air N/E	N/B
	3 (CO2 or	FOAM), FOR CLASS III LIQUID FIR	ES.
Peolal Fire Fighting Proceduras	00 COOL CO	NTAINERS. INEFFECTIVE ON FIRE,	WILL
FECT PIREPIGHTERS. USE	FOG NOZZL	ES & SELF CONTAINED BRERATHERS	i .
Inusual Fire and Explosion Hazards	LOSED. IS	OLATE FROM OXIDIZERS, HEAT, OF	EN FLAME
LOSED CONTAINERS MAY EXPI	-		1
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# ATTACHMENT F

#### TABLE 1-1

### SUMMARY OF SAMPLING ACTIVITIES ON APRIL 22, 1998 ROWLAND TRUCKING CO., CARLSBAD, NEW MEXICO

Sampling Location	Sample Identification	Sample Matrix	Sample Collection Method	Analytical Parameters	Comments		
Washout pit	RTC-SL-01	Sludge	Tetra Tech collected the sludge samples by using a long-handled ladle and a disposable plastic scoop; the sludge was poured from the ladle into an aluminum pan, from which it was then scooped into the sample container.	TCLP VOCs (1311/8260A) TCLP SVOCs (13 1/8270C) TCLP metals (1311/601(B/7000A) Ignitability (1010)	MS/MSD volumes were collected for the sludge matrix.		
	RTC-SL-01D			TCLP VOCs (1311/8260A) TCLP SVOCs (1311/8270C) TCLP metals (1311/6010B/7000A)	Duplicate sample of RTC-SL-01		
Soil located next to, and east of, the washout pit	RTC-SS-02A	Soil	Tetra Tech collected the soil samples (coring from 4 to 9 feet bgs) by using a post-hole digger, a pick axe, an auger, and disposable plastic scoop. For total VOCs analysis, Tetra Tech scooped the soil directly into the sample	Total VOCs (8260A) Total SVOCs (8270C) Total metals (3051/6010B/7000A)	MS/MSD volumes were collected for the soil matrix.		
	RTC-SS-02AD		container. For total SVOCs and metals analysis, Tetra Tech homogenized the soil in an aluminum pan before scooping the soil into the sample container. Tetra Tech collected enough soil for the duplicate sample.		Duplicate sample of RTC-SS-02A		
Soil located next to, and	RTC-SS-02B	Soil	Tetra Tech personnel collected the total VOCs soil sample by using an Encore soil sampler and T-handle; samples	il sampler and T-handle; samples collected			
east, of the washout pit	RTC-SS-02BD		will be analyzed by using Methods 5035/8260B.		Duplicate sample of RTC-SS-02B		

1-1

#### **TABLE 1-1 (Continued)**

#### SUMMARY OF SAMPLING ACTIVITIES ON APRIL 22, 1998 ROWLAND TRUCKING CO., CARLSBAD, NEW MEXICO

Sampling Location	Sample Identification	Sample Matrix	Sample Collection Method	Analytical Parameters	Comments
Off site (east side of road west of facility)	RTC-SS-03A	Soil	Tetra Tech collected the soil samples (coring from 4 to 8 feet bgs) by using a post-hole digger, a pick axe, an auger, and a disposable plastic scoop. For total VOCs analysis, Tetra Tech scooped the soil directly into the sample container. For total SVOCs, and metals analysis, Tetra Tech homogenized the soil in an aluminum pan before scooping the soil into the sample container.	Total VOCs (8260A) Total SVO( (8270C) Total n.:tals (3051/6010B/7700A)	
	RTC-SS-03B		Tetra Tech personnel collected the total VOCs soil sample by using an Encore soil sampler and T-handle; samples will be analyzed by using Methods 5035/8260B.	Total VOCs (5035/8260B)	

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Notes:

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bgs ER MS MSD RTC SL SS SVOC TCLP VOC

No comment Below ground surface Equipment rinse Matrix spike Matrix spike duplicate Rowland Trucking Company Sludge Surface Soil Semivolatile organic compound Toxicity characteristic leaching procedure Volatile organic compound

samples preserved with nitric acid

# ATTACHMENT G

#### TABLE 1-1

#### SUMMARY OF CONSTITUENTS DETECTED IN SUBSURFACE SOIL ROWLAND TRUCKING CO., INC., CARLSBAD, NEW MEXICO

					Subsurface Soil (n	ng/kg)					
	RTC-SS-02A	RTC-SS-02AD	RTC-SS-02B	RTC-SS-02BD	RTC-SS-03A	RTC-SS-03B	EPA Human Health Screening Level *				
Detected Constituent					(background)	(background)	Soil Regional Background Concentration/Range	Industrial Soil Scenario			
			HSL Me	tals (SW-846 Met	nods 3051/6010A/7	'000A)					
Aluminum	12,300	11,000			9,060		45,000	SAT			
Arsenic	5.2	5.7			4.7		1.1 - 16.7	610 NI 2.0 C			
Barium	7,800	4,990			262		430	SAT			
Cadmium	<0.64	1.3			<0.58		0.01 - 1.0	850 N			
Calcium	64,900	76,600			112,000		NE	NE			
Chromium	25.2	24.7			11.8		38	1,600 N			
Copper	38.7	82.2			3.1		20	63,000 N			
Iron	21,600	22,700			7,190		20	SAT			
Lead	118	130			2.4		10 - 18	2,000 N			
Manganese	248	252			74.8		389 - 850	8,300 N			
Magnesium	8,760	8,480			20,000		NE	NE			
Mercury	0.86	2.3			<0.12		0.1	510 N			
Nickel	13.1	13.4			7.8		16	34,000 N			
Potassium	3,170	3,120			1,400		NE	NE			
Silver	<1.3	1.4			<1.2		0.01 - 5	8500 N			
Sodium	7,820	8,670			<580		NE	NE			
Vanadium	26.2	24.0			32.1		66	12,000 N			
Zinc	116	154			18.2		22 - 50	SAT			

#### TABLE 1-1 (Continued)

#### SUMMARY OF CONSTITUENTS DETECTED IN SUBSURFACE SOIL ROWLAND TRUCKING CO., INC., CARLSBAD, NEW MEXICO

					Subsurface Soil (n	ng/kg)						
	RTC-SS-02A	RTC-SS-0 D	RTC-SS-02B	RTC-SS-02BD	RTC-SS-03A	RTC-SS-03B	EPA Human Health Screening Level *					
Detected Constituent							Soil Regional Background Concentration/Range	Industrial Soil Scenario				
				Total V	'OCs							
Benzene	<1.6	<16.0	3.9	4.0	<0.0058	<0.0058	NE	3.2 C				
sec-Butylbenzene	<1.6	<16.0	1.7	2.3	<0.0058	<0.0058	NE	20,000 N I				
Ethylbenzene	<1.6	<16.0	13.0	15.0	<0.0058	<0.0058	NE	3,100 S				
Isopropylbenzene	<1.6	<16.0	2.3	2.7	<0.0058	<0.0058	NE	NE				
p-Isopropyltoluene	<1.6	<16.0	1.5	1.9	<0.0058	<0.0058	NE	NE				
Methylene chloride <sup>b</sup>	<1.6	<16.0	<0.320	<0.320	<0.0058	<0.0058	NE	25 C				
Naphthalene	<1.6	<16.0	5.5	5.6	<0.0058	<0.0058	NE	NE				
n-Propylbenzene	<1.6	<16.0	3.8	4.5	<0.0058	< 0.0058	NE	NE				
Toluene	·<1.6	<16.0	4.2	4.3	<0.0058	<0.0058	NE	2,700 S				
1,2,4-Trimethylbenzene	<1.6	<16.0	17.0	20.0	<0.0058	<0.0058	NE	SAT				
1,3,5-Trimethylbenzene	<1.6	<16.0	7.6	9.0	<0.0058	<0.0058	NE	SAT				
m-Xylene & p-Xylene	<0.8	<7.9	39.0	36.0	<0.0029	<0.0029	NE	980 S				
o-Xylene	<0.8	<7.9	13.0	12.0	<0.0029	<0.0058	NE	980 S				
			Te	otal SVOCs (SW-8	46 Method 8270B)	0						
2-Methylnaphthalene	58	89.0			<0.380		NE	NE				
Naphthalene	<21.0	21.0			<0.380		NE	800 S				

1-2

#### TABLE 1-1 (Continued)

#### SUMMARY OF CONSTITUENTS DETECTED IN SUBSURFACE SOIL ROWLAND TRUCKING CO., INC., CARLSBAD, NEW MEXICO

Notes:

All concentrations are reported in units of milligrams per kilogram (mg/kg).

Constituents reported in this table include those detected in at least one sample at a concentration greater than the reporting limit.

XXX Value exceeds both (1) EPA Region 6 human health media-specific screening level for residential soil and (2) soil regional background concentration/range.

- -- Sample not analyzed for this constituent
- A SW-846 VOC Method 8260A
- B SW-846 VOC Methods 5035/8260B; Tetra Tech collected samples by using the Encore sampler.
- C Carcinogenic effects
- D Duplicate sample
- EPA U.S. Environmental Protection Agency
- HSL Hazardous Substance List
- I Ingestion route only
- N Noncarcinogenic effect
- NE None established
- HSL Hazardous substance list
- RTC Rowland Trucking Co., Inc.
- S Soil saturation concentration
- SAT Risk-based value above expected saturation point
- SS Surface soil
- SVOC Semivolatile organic compound
- VOC Volatile organic compound
- a EPA Region 6 human health media-specific screening levels for soil, residential scenario (Enclosure 3)
- b Method blank contamination. The associated method blank contains the target analyte at a reportable level.

#### **TABLE 1-2**

#### SUMMARY OF CONSTITUENTS DETECTED IN SLUDGE FROM WASHOUT PIT AOWLAND TRUCKING CO., INC., CARLSBAD, NEW MEXICO

		Sludge (mg/kg)	
Detected Constituent	RTC-SL-01	RTC-SL-01D	Regulatory Limit <sup>a</sup>
	TCLP VOC (SW-846	Methods 1131/8260A)	
Benzene	0.48	0.27	0.5
	TCLP SVOC (SW-846	6 Methods 1131/8270B)	
None	NA	NA	NE
	TCLP Metals (SW-846 M	ethods 1131/6010A/7000A)	
None	NA	NA	NE
	Ignitability (	SW-846 1010)	
Ignitability	>150		140

Notes:

All concentrations are reported in units of milligrams per kilogram (mg/kg).

Constituents reported in this table include those detected in at least one sample at a concentration greater than the reporting limit.

- -- Sample not analyzed for this constituent
- D Duplicate sample
- NA Not applicable
- NE None established
- RTC Rowland Trucking Co., Inc.
- SL Sludge
- SVOC Semivolatile organic compound
- TCLP Toxicity characteristic leachate procedure
- VOC Volatile organic compound

a Regulatory limits for TCLP analytes are specified under Title 40, Code of Federal Regulations (40 CFR) Part 261.<sup>1</sup> (b). Regulatory limits for ignitability (flash point) are specified under 40 CFR Part 261.21 (a) (1).

# ATTACHMENT H

i.

## Chain of Custody Record



QUA-4149 (1097)																				
CHETRA TECH E	M INC	<u>.</u>			Project Manager VEGA / MARK BUTLER Date 4/23/98							Page of								
350 NI. ST. PAUL ST., SUITE 2:00				Telephope Nug	Telephone Number (Area Code)/Fax Number (2/4) 140-2001 (2/4) 922-9715 Lab Location AUSTIN, TX							Anaiysis								
City DALLAS	State	Zip. Code 7520	21	Site Contact	IE)					(PC	12	N.	B	34	ABE-					
Project Number/Name 270 R & 6 Ø 95	Ø2LA	1/RTC	2	Carrier/Waypill	X <sup>Nymber</sup> 80	4045	85	0168		5261	53	260	Ng:	Neg SVD	827 1017 1017					
Contract/Purchase Order/Quote Nun	nber								· · · · · · · · · · · · · · · · · · ·		24 1	2	ZZZ.	Min C						
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-RTC-SL-01		1	1245		3202	WMG	12		MS/MSD			$\uparrow \uparrow$	+12	$\langle X \rangle$						
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## Chain of Custody Record



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Address 350 N. ST. PAUL ST., SUITE .	ZIA/TA	Telephone Number (Area Code)/Fax Number (214/1740-2007/(214)922-9715 AUSTIN, TX							Analysia							
City DALLAS State 75	201	Site Contact	Site Contact (SAN/E)								R.	$\overline{\mathbf{M}}$	$\prod$	$\prod$		
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(RTC-55-03A)	1655			WMG			BACKGROUND	X			$\square$					
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Company TETRA TECH	4b Expr
Address 350 N ST PAUL ST	L
City DALLAS State TX ZIP 2 Your Internal Billing Reference Information 270R060950 (Optional) (First 24 characters will appear on invoice)	75201 102LA 6 Spec
<b>3</b> To (please print and press hard) Recipient's SANDRA GREEN Phone 15	Does this ship Di2,892-6684 7 Payn Does this ship □ Dry ice □ Ury ice □ Ury ice □ Try ic
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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6 1445 ROSS AVENUE DALLAS, TEXAS 75202-2733

JUN 0 5 1998

<u> ĆERTIFIED MAIL: RETURN RECEIPT REQUESTED</u> - P 104 191 877

Mr. Roger Anderson State of New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Dear Mr. Anderson:

WAL PROTEC

For your information, I have enclosed a copy of the Compliance Evaluation Inspection (CEI) report for Rowland Trucking Company. The inspection was conducted on April 20 and 22, 1998. There were no violations identified which warrant any further Environmental Protection Agency action.

If you have any questions, please contact me, or have a member of your staff contact Ms. Nancy Jones of my staff at (214) 665-8041.

Sincerely yours

Desi Crouther, Chief Hazardous Waste Enforcement Branch

Enclosure

Inspection Date: Ap	pril 20 & 22, 1998 EPA ID Number: NMD98	2564767
Facility Name: Physical Location:	Rowland Trucking Company 1609 E. Green Carlsbad, New Mexico, 88220	
Mailing Address:	P. O. Box 127 Carlsbad, New Mexico 88220	
Type of Ownership:	FederalStateCountyMunicipal	<u>X</u> Private
Lead EPA Inspector Other Participants	<pre>pants: (name and phone number) : Nancy Jones (214) 665-8041 Initials : M Coffman (505) 827-1558, L. Vega (214) 740 </pre>	-2007,
Facility Owner:	Key Energy Group	
Facility Representa Name John Hutcheson C.W. Williams	Title Phone Plant Manager (505)	
which hauls KCL wat They also haul prod	on: <u>Rowland Trucking Co. is an oil field servic</u> er, brine water and fresh water to customers' under the service water and tank bottoms from their customers	well sites.
Inspection Type: X	<u>X</u> SQG (100kg/mo to 1000kg/mo)CESQG _EPA LeadState LeadCSE <u>X</u> C CDI <u>X</u> Sampling <u>X</u> Multi-Media0	EI
Reason for Evaluat: (01)Follow up _X(04)Citizen Cor (63)US/Mexico	(02)Case Development	(03)Sampling (16)CAV
Summary of Inspect:	ion: see narrative	
Checklists Complete	ed:	
	Other <u>HW Notification, Site Location Map/Site L</u> <u>CRI Shipping Documents, MSDSs, Summary o</u> <u>y of Amalytical Results, and Chain of Custody</u>	s <u>ayout Map,</u> f Sampling
Peer Reviewed by -	THITS OUR GENI-AS Date	: 4-4-91

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#### ROWLAND TRUCKING COMPANY

On April 20 & 22, 1998, a Compliance Evaluation Inspection was conducted at Rowland Trucking Company located at 1609 East Green, Carlsbad, New Mexico. The purpose of the inspection was to respond to a referral from the Roswell office of the Bureau of Land Management (BLM). BLM received a citizen complaint concerning buried drums containing residues of oil field chemicals including surfactants and xylene. The drums were allegedly buried in a rinsate pit approximately ten years ago.

The CEI began at 3:50 PM on April 20, 1998 with one of the salesmen, C.W. Williams. Mr. Williams explained that the plant manager would not be in the office that day. The following personnel were present during the inspection:

Nancy Jones	RCRA Enforcement Officer
Mark Coffman	NMED RCRA Inspector
Luis Vega	Tetra Tech-EPA Contractor
Ale Garza	Tetra Tech-EPA Contractor
C.W. Williams	Rowland Trucking Salesman
John Hutcheson	Rowland Trucking Plant Manager

#### BACKGROUND

Rowland Trucking Company operates an oil field service facility which hauls Potassium Chloride treated water (KCL water), brine water, and fresh water to their customers' well sites. They haul produced water to BKE located in Carlsbad and Bone Springs Salt Water Disposal. A copy of the facility's discharge plan is included as Attachment C. Also, they occasionally vacuum out tanks for their customers and haul the tank bottoms to wherever their customer specifies (usually Controlled Recovery Inc. (CRI) or Prabo). Mr. Williams stated that the tank bottoms may contain naturally occurring radioactive material (NORM). However, the only analyses conducted on the tank bottoms is for  $H_2S$ . In 1989, the facility submitted a notification to the Louisiana Department of Environmental Quality which \_ ted that they were a small quantity generator of D001 and D002 waste. The notification is included as Attachment A. Mr. Williams stated he was not aware of the facility generating any hazardous waste. He said they possibly generate used oil and antifreeze.

#### SITE TOUR

A site location map and site layout map are included as Attachment B. At the time of the inspection, there was an existing truck rinsate pit (Photograph # 1-3) and a rinsate pit under construction (Photograph # 4-5). The existing rinsate pit contained truck washout water and frac tank rinsate. Solids build-up are sent to CRI for disposal. The solids contain frac sand and paraffin. Several CRI shipping documents are included as Attachment D. The pit under construction will replace the existing rinsate pit. The existing pit is concrete lined. The new pit will be larger and have a liner, a concrete base and sides.

There were also 9 frac tanks, 4 storage bins, 2 aboveground storage tanks (AST), and a cement pad with 13 55-gallon product drums located in the yard (Photograph # 6). The drums contained various oil field chemicals/surfactants used as additives to the water Rowland Trucking hauls to their customers' well sites. Material Safety Data Sheets for the chemicals are included as (Attachment E). One of the ASTs contained KCL water and the other contained brine water. There were 2 additional ASTs and 3 trash bins located at the front of the facility, southwest of the office.

The RCRA enforcement officer asked Mr. Williams to show the inspection team the area where the old rinsate pit, in which the the drums were allegedly buried was located. Mr. Williams stated that he was not aware that drums were buried. However, he indicated that the old rinsate pit was underneath or next to the existing pit. A subsurface survey was conducted with a Geonics EM 31 magneto-meter to search for the buried drums. Three areas were identified with the EM 31 as possible locations containing subsurface metal (see Attachment B). However, none of these areas coincided with the information provide by the informant or the facility on where the drums/old rinsate pit were allegedly buried. The inspection team marked one of the areas which was located southeast of the existing pit with spray paint (Photograph #9). The EM 31 indicated stronger readings in this particular area. The RCRA enforcement officer explained that the inspection team would return to collect samples, and not to disturb the marked area. The inspection team exited the facility at 5:50 PM.

#### SAMPLING ACTIVITIES

The inspection team arrived at the facility again at 11:25 AM on April 22, 1998. Tetra Tech collected an equipment rinsate blank (RTC-ER-01) by pouring deionized water through soil augers into sample containers (Photograph # 10). The inspection team was met by the plant manager, John Hutcheson. Tetra Tech conducted another electromagnetic survey of the yard with the EM 31 (Photograph # 7-8). Mr. Hutcheson stated that he thought the area marked with spray paint on April 20, 1998, by the inspection team might be where an electrical line was buried. Based on this information and information provided by the informant, it was decided not to sample in this area. It was also decided not to sample the other two areas identified with the EM 31. The facility explained that the area northwest of the pit under construction was near a buried water line. The area southwest of the pits was not sampled because it was not near the areas identified by the informant or facility personnel as possible locations of the old rinsate pit.

The RCRA enforcement officer decided to have samples collected

from the sludge in the existing rinsate pit to confirm the contents were typical oil and gas exploration and production exempt wastes. Samples RTC-SL-01 and RTC-SL-01D (duplicate of RTC-SL-01) were collected by using a long handled ladle and a disposable plastic scoop (Photograph # 11-14). The samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) volatile organics (Method 1311/8260A), TCLP semi-volatile organics (Method 1311/8270C), TCLP metals (Method 1311/6010B/7000A), and ignitability (Method 1010).

Although, the EM 31 did not detect any subsurface metal near the existing pit, the informant and the facility personnel indicated an old rinsate pit was covered up approximately 10 years ago and was located underneth the existing pit or between the existing pit and the pit ...der construction. Therefore, the RCRA enforcement officer decided to have Tetra Tech auger several feet below ground surface next to, and east of the existing pit in an attempt to locate the old rinsate pit (see Attachment B for sample location). A post-hole digger and a pick axe were used to dig through 12-18 inches of compacted gravel cover. Then, an auger was used to core deeper below the surface. A black sludge layer was identified at 4 feet below ground surface. The RCRA enforcement officer directed Tetra Tech to collect samples in an effort to determine whether subsurface contamination could have resulted from the burial of drums. Samples RTC-SS-02A, RTC-SS-02AD, RTC-SS-02B, and RTC-SS-02BD were collected at a depth of 4-9 feet below ground surface (Photograph # 15-17). The total depth of the sludge layer could not be determined because the sidewalls of the auger hole kept collapsing. A photo ionization detector (PID) was used to determine the concentration of organic The maximum PID reading inside the auger hole was qases. approximately 50 parts per million (ppm). Previously, a PID reading for the facility was established to be approximately 5 ppm with a background PID reading of approximately 1 ppm. Samples RTC-SS-02A and RTC-SS-02AD (duplicate of RTC-22-02A) were analyzed for total volatile organics (Method 8260A), total semivolatile organics (Method 8270C), and total metals (Method 3051/6010B, 7000A). Samples RTC-SS-02B and RTC-SS-02BD (duplicate of RTC-SS-02B) were analyzed for total volatile organics (Method 5035/8260B).

Background soil samples were collected off-site on the east side of the road west of the facility. Samples RTC-SS-03A and RTC-SS-03B were collected by coring 4-8 feet below ground surface using a post-hole digger, a pick axe, and an auger. Sample RTC-SS-03A was analyzed for total volatile organics (Method 8260A), semivolatile organics (Method 8270C), and total metals (Method 3051/6010B/7000A). RTC-SS-03B (Photograph # 18) was analyzed for total volatile organics (Method 5035/8260B).

Method 5035/8260B is a new method for analyzing volatile organics which has been demonstrated to provide more accurate results. Because EPA Region 6 has been using Method 8260A, the RCRA enforcement officer decided to collect samples for both methods and compare the results. Method 5035/8260B uses methanol as a preservative. In this case, the lab provided Tetra Tech with Encore sampling devices prior to the inspection. The samples were collected with the Encore unit and returned to the lab, where the soil it contained was added to methanol. The lab took an aliquot of the methanol and analyzed it using the applicable method.

A summary of the sampling activities is included as Attachment F.

An exit briefing was conducted to discuss areas of concern observed during the inspection. The RCRA enforcement officer explained that the only concern was the buried drums. However, the EM 31 had not letected any subsurface metal in the areas the informant had indicated. Therefore, the sample results would be used to identify subsurface contamination. The inspection team exited the facility at 5:30 PM.

No significant findings were identified in the laboratory analysis. A summary of the sample results is included as Attachment G.