

District I *
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised April 3, 2017

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: DJR Operating, LLC	Contact: Amy Archuleta	
Address: PO BOX 156 Bloomfield, NM 87413	Telephone No.: 505-632-3476 x201	
Facility Name: Huerfano Compressor Station	Facility Type: Compressor Site	
Surface Owner: Federal	Mineral Owner:	API No.: N/A

LOCATION OF RELEASE

Unit Letter SE/NE	Section 1	Township 25N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
-----------------------------	---------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	---------------------------

Latitude **36° 25' 59" N** Longitude **- and 107° 54' 43" W** NAD83

NATURE OF RELEASE

Type of Release Glycol	Volume of Release 250 gallons (5.5 bbls)	Volume Recovered
Source of Release Storage Tank	Date and Hour of Occurrence 12-12-17 12:00 (Midnight)	Date and Hour of Discovery 12-12-17 at 7:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, Vanessa Fields, and Whitney Thomas(BLM)	
By Whom? Amy Archuleta	Date and Hour 12-12-17 9:43 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

OIL CONS. DIV DIST. 3

JAN 16 2018

Describe Cause of Problem and Remedial Action Taken.*


The valve on a glycol storage tank was left open after a late night call out. *The secondary containment was bypassed, and the liquid spilled over onto the location. This site has a heavy layer of road base. This was unused Glycol. We excavated approximately 40 yards of soil and disposed of it at IEI's land farm on 12-13-17.

***Revised from initial report**

Describe Area Affected and Cleanup Action Taken.*

The release remained in the fenced area of the compressor station. A map of the contaminated area is attached. Samples were taken on 12-19-17. The results are attached. The SDS for the unused Glycol is attached. The backfill was road base and gravel mix at a total of 40 yards.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION		
Printed Name: Amy Archuleta	Approved by Environmental Specialist: 		
Title: Regulatory Supervisor	Approval Date: 1/16/18	Expiration Date:	
E-mail Address: aarchuleta@djrlc.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-12-18 Phone: 505-632-3476 x201			

* Attach Additional Sheets If Necessary

HNCS 180 165 78 84

20



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Huertano Compressor Station
Project Manager: Amy Archuleta

Reported:
01/05/18 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Huertano #1	1712184-01	Solid	12/19/17 12:02	12/19/17 12:02

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating

#20 CR 5060

Bloomfield NM, 87413

Project: BTEX,TPH, CI

Project Name / Number: Huertano Compressor Station

Project Manager: Amy Archuleta

Reported:

01/05/18 12:51

Huertano #1

1712184-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- **Cardinal Laboratories**

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	3.53	mg/kg	1	12/28/17	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.04	mg/kg	1	12/28/17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.04	mg/kg	1	12/28/17	8015B		MS

Surrogate: 1-Chlorooctane			86.5 %	28.3-164		12/28/17	8015B		MS
Surrogate: 1-Chlorooctadecane			82.0 %	34.7-157		12/28/17	8015B		MS

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 3 of 6



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating
#20 CR 5060
Bloomfield NM, 87413

Project: BTEX,TPH, CI
Project Name / Number: Huertano Compressor Station
Project Manager: Amy Archuleta

Reported:
01/05/18 12:51

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 7122717 - General Prep - Organics

Blank (7122717-BLK1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.4	34.7-157			
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	28.3-164			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (7122717-BS1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	44.4		mg/kg	50.0		88.9	34.7-157			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	28.3-164			
DRO >C10-C28	188	10.0	mg/kg	200		94.1	81.4-124			
GRO C6-C10	206	10.0	mg/kg	200		103	76.6-119			
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	79.4-121			

LCS Dup (7122717-BSD1)

Prepared: 12/27/17 Analyzed: 12/28/17

Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	34.7-157			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
DRO >C10-C28	205	10.0	mg/kg	200		103	81.4-124	8.62	9.83	
GRO C6-C10	223	10.0	mg/kg	200		111	76.6-119	7.68	7.94	
Total TPH C6-C28	428	10.0	mg/kg	400		107	79.4-121	8.13	8.57	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating

#20 CR 5060

Bloomfield NM, 87413

Project: BTEX,TPH, Cl

Project Name / Number: Huertano Compressor Station

Project Manager: Amy Archuleta

Reported:

01/05/18 12:51

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220
Fax: (970) 247-4227service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

Company Name: <u>BSE Operating</u>				Bill to (if different):				ANALYSIS REQUEST																															
Project Manager: <u>Amy Archuleta</u>				P.O. #:																																			
Address: <u>PO Box 156</u>				Company:																																			
City: <u>Blamfield</u> State: <u>NM</u> Zip: <u>87413</u>				Attn:																																			
Phone #: <u>505-320-6917</u> Email: <u>aarchuleta@bse.com</u>				Address:																																			
Additional Report To:				City:																																			
Project Name: <u>Huerfano Compressor Station</u>				State: Zip:																																			
Project Number:				Phone #:																																			
Sampler Name (Print): <u>Amy Archuleta</u>				Fax or Email:																																			
FOR LAB USE ONLY		Collected		Matrix (check one)				# of containers				X8015B																											
Lab I.D.		Sample Name or Location		Date		Time		GROUNDWATER		SURFACEWATER										WASTEWATER		PRODUCEDWATER		SOIL		OTHER:		No preservation (general)		HNO ₃		HCl		H ₂ SO ₄		Other:		Other:	
184																																							
12/12/04-01		Huerfano #1		12/19/17																																			

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>12/19/17</u>	Received By: <u>[Signature]</u>	Report to State? (Circle)
	Time: <u>12:02</u>		Yes No
Relinquished By: <u>[Signature]</u>	Date: <u>12/19/17</u>	Received By: <u>[Signature]</u>	
	Time: <u>10:55</u>		
Relinquished By: <u>Kangaroo</u>	Date: <u>12-20-17</u>	Received By: <u>[Signature]</u>	
	Time: <u>0847</u>		
Delivered By: (Circle One)	Temperature at receipt: <u>9.48</u>	CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - FedEx - Kangaroo - Other:			

#1 on 12/20/17
0.1/0.3°C R

† GAL cannot always accept verbal changes. Please fax or email written change requests.
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



We create chemistry

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 1/11
(30084587/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Recommended use of the chemical and restriction on use

Recommended use*: industrial chemicals; antifreezing agent; Intermediate; solvent(s); Monomer.
Unsuitable for use: Pharmaceutical

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Molecular formula: CH₂(OH)-CH₂(OH)
Chemical family: glycols
Synonyms: 1,2-Ethanediol

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox. 4 (oral)
STOT RE 2

Acute toxicity
Specific target organ toxicity — repeated exposure

Label elements

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 2/11
(30084587/SDS_GEN_US/EN)

Pictogram:



Signal Word:
Warning

Hazard Statement:

H302	Harmful if swallowed.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P260	Do not breathe dust/gas/mist/vapours.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P311	Call a POISON CENTER or doctor/physician.
P301 + P330	IF SWALLOWED: rinse mouth.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.
See section 12 - Results of PBT and vPvB assessment.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

WARNING:

Contains a component for which embryotoxicity and teratogenicity was observed in animal studies, in the absence of maternal toxicity.

MAY BE HARMFUL IF SWALLOWED.

MAY BE HARMFUL IF INHALED.

May be harmful if absorbed through skin.

Prolonged and repeated exposure may affect CNS, liver and kidney.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Prolonged or repeated contact may result in dermatitis.

Chronic exposure may cause liver and kidney damage.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Avoid inhalation of mists/vapours.

Use with local exhaust ventilation.

Avoid contact with the skin, eyes and clothing.

Wear NIOSH-certified chemical goggles.

Eye wash fountains and safety showers must be easily accessible.

Wear chemical resistant protective gloves.

Wear protective clothing.

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 3/11
(30084587/SDS_GEN_US/EN)

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
107-21-1	$\geq 99.0 - \leq 100.0$ %	ethylene glycol

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
107-21-1	$\geq 99.0 - \leq 100.0$ %	ethylene glycol

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: kidney damage

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote: Administration of ethanol may counteract the effects of ethylene glycol, such as metabolic acidosis and renal damage. 4-Methylpyrazole (a competitive inhibitor of alcohol dehydrogenase) can be used as an antidote in ethylene glycol poisoning.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 4/11
(30084587/SDS_GEN_US/EN)

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, foam, dry powder, gaseous extinguishing media, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
See MSDS section 7 - Handling and storage.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. In case of fire and/or explosion do not breathe fumes.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

This product is regulated by CERCLA ('Superfund').

Methods and material for containment and cleaning up

For residues: Rinse away with water.
Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
No explosion proofing necessary.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from air. Protect from atmospheric humidity. Protect contents from the effects of light. Keep container tightly closed.

Storage stability:
Storage temperature: < 40 °C
The stated storage temperature should be noted.
Storage duration: 12 Months

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 5/11
(30084587/SDS_GEN_US/EN)

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

ethylene glycol	OSHA PEL	CLV 50 ppm 125 mg/m ³ ;
	ACGIH TLV	TLV value 100 mg/m ³ aerosol ;
		Ceiling Limit

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves, Consult with glove manufacturer for testing data.

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

No special measures necessary if stored and handled correctly. Avoid inhalation of vapours/mists. Wear protective clothing as necessary to prevent contact. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	odourless	
Colour:	colourless, clear	
pH value:	5.0	(500 g/kg, 20 °C) (internal method)
Melting point:	-13 °C	Literature data.
Boiling point:	197.4 °C	(1,013 hPa) Literature data.
Sublimation point:		No applicable information available.
Flash point:	111 °C	Literature data.
Flammability:	not flammable	
Lower explosion limit:		For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:		For liquids not relevant for classification and labelling.
Autoignition:	398 °C	Literature data.
Vapour pressure:	0.123 hPa	(25 °C) (measured) Literature data.
Density:	1.11 g/cm ³	(20 °C) Literature data.
Relative density:	1.11	(20 °C)
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):	approx. -1.36	(23 °C) (Calculation Hansch/Leo) Literature data.

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21

Page: 6/11

Version: 1.0

(30084587/SDS_GEN_US/EN)

Self-ignition temperature:		Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition:	No decomposition if correctly stored and handled.	
Viscosity, dynamic:	16.1 mPa.s	(25 °C) Literature data.
Viscosity, kinematic:		No applicable information available.
Particle size:		
		The substance / product is marketed or used in a non solid or granular form.
Solubility in water:		miscible
Miscibility with water:		miscible in all proportions
Solubility (quantitative):		No applicable information available.
Solubility (qualitative):	soluble	
	solvent(s): polar solvents,	
Molar mass:	62.07 g/mol	
Evaporation rate:		not determined

10. Stability and Reactivity

Reactivity

No applicable information available.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of Remarks:

flammable gases: Forms no flammable gases in the presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

> 40 degrees Celsius

Avoid humidity. Avoid daylight. Disregard of the conditions mentioned may result in undesirable decomposition reactions.

Avoid extreme temperatures. Avoid moisture.

Incompatible materials

strong oxidizing agents

alkali or alkaline-earth metal, aldehydes, aluminum compounds

Hazardous decomposition products

Decomposition products:

Possible decomposition products: carbonyl compounds, Dioxolan derivatives

Thermal decomposition:

No decomposition if correctly stored and handled.

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 7/11
(30084587/SDS_GEN_US/EN)

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Oral

Type of value: LD (human)

Value: approx. 1,600 mg/kg

The European Union (EU) has classified this substance as 'harmful'.

Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 2.5 mg/l

Exposure time: 6 h

An aerosol was tested.

Dermal

Type of value: LD50

Species: mouse (male/female)

Value: > 3,500 mg/kg

Assessment other acute effects

Assessment of STOT single:

The available information is not sufficient for evaluation.

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Skin

Species: rabbit

Result: non-irritant

Method: BASF-Test

Eye

Species: rabbit

Result: non-irritant

Method: BASF-Test

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. Human data do not fully exclude a skin sensitizing potential.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Aspiration Hazard

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 8/11
(30084587/SDS_GEN_US/EN)

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: In animal studies the substance caused malformations when given at high doses.

However, the relevance of this result for humans is unclear.

Symptoms of Exposure

kidney damage

Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the skin, respiratory disorders or impaired function for the liver/kidneys may have increased susceptibility to excessive exposures.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) 72,860 mg/l, Pimephales promelas (EPA 72-1, static)

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants

EC50 (96 h) 6,500 - 13,000 mg/l (growth rate), Selenastrum capricornutum

Chronic toxicity to fish

No observed effect concentration (7 d) 15,380 mg/l, Pimephales promelas

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 9/11
(30084587/SDS_GEN_US/EN)

Chronic toxicity to aquatic invertebrates

No observed effect concentration (7 d) 8,590 mg/l, Ceriodaphnia sp.

Assessment of terrestrial toxicity

Study scientifically not justified.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN EN ISO 8192 aerobic

activated sludge, domestic/EC20 (30 min): > 1,995 mg/l

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

Elimination information

90 - 100 % DOC reduction (10 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into waterways or sewer systems without proper authorization. Dispose of in a licensed facility. Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 10/11
(30084587/SDS_GEN_US/EN)

IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories):

Acute; Chronic

CERCLA RQ

5000 LBS

CAS Number

107-21-1

Chemical name

ethylene glycol

Reportable Quantity for release:

5,000 lb

State regulations

State RTK

MA, NJ, PA

CAS Number

107-21-1

Chemical name

ethylene glycol

NFPA Hazard codes:

Health : 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 2 Flammability: 1 Physical hazard: 0

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Acute Tox.

4 (oral)

Acute toxicity

STOT RE

2

Specific target organ toxicity — repeated exposure

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2014/11/21

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Safety Data Sheet

ETHYLENE GLYCOL - INDUSTRIAL GRADE

Revision date : 2014/11/21
Version: 1.0

Page: 11/11
(30084587/SDS_GEN_US/EN)

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

Amy Archuleta

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, January 8, 2018 3:56 PM
To: Amy Archuleta; Fields, Vanessa, EMNRD
Subject: RE: Huerfano Compressor Station

Amy,

Since the release was only lean glycol no additional sampling is required.. Please make sure you specify the contaminate and the sampling in your final C-141.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Amy Archuleta [mailto:aarchuleta@djrlc.com]
Sent: Monday, January 8, 2018 10:21 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Subject: Huerfano Compressor Station

Hi Cory/Vanessa:

Attached are the sample results for the Huerfano Compressor Station.

We believe the test are in line with requirements for this site and we request permission to replace the road base.

When the work is done I will submit a final C141.

Thank you
Amy



Untitled Map

Write a description for your map.

Legend

- Feature 1
- Huerfano Plant

Huerfano Plant

Release Area

Google Earth

© 2017 Google

200 ft

