Nolan, Shiver

From: Sent: To:	Nolan, Shiver Tuesday, January 17, 2017 7:20 AM NMOCD Mike Bratcher (mike.bratcher@state.nm.us); Crystal Weaver (crystal.weaver@state.nm.us)
Cc: Subject: Attachments:	Miro, Alena; Ferguson, Dina (djferguson@eprod.com) S Eddy 2RP-3493 S Eddy C-141 (10-4-2016).pdf; S Eddy -02-Assessment Summary Report.pdf; S Eddy C-141 10-8-2016.pdf

Attached is the information on 2 releases and the assessment summary. Should you need additional information, please contact Alena Miro.

Shiver J. Nolan Sr. Compliance Administrator Enterprise Products Operating LLC LLC

State of New Mexico **Energy Minerals and Natural Resources**

> **Oil Conservation Division** 1220 South St. Francis Dr.

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505

2RP-3493

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Enterprise Field Services, LLC	Contact Alena Miro		
PO Box 4324, Houston, TX 77210	Telephone No. 575-628-6802		
Facility Name South Eddy Cryo Plant	Facility Type: Natural Gas	Processing Plant	
Surface Owner Enterprise Field Services, Mineral Owner	NA	Lease No. NA	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	1	255	30E	244	South	628	East	Eddy

Latitude: <u>N 32.160280</u> Longitude: <u>W-103.827811</u>

NATURE OF RELEASE

Type of Release Amine liquid and process material	Volume of Release: 16.7 bbls liquids	Volume Re	covered: 10 bbls liquids
Source of Release Sump overfill	Date and Hour of Occurrence	Date and H	our of Discovery
	10/08/2016 @ 06:00 MST		@ 06:00 MST
Was Immediate Notice Given?	If YES, To Whom?	1 10/00/2010	00.00 11151
🗌 Yes 🔲 No 🖾 Not Required			
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.	
🗖 Yes 🔀 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken *	·····		
Amine system liquids were released due to a sump overflow. The sump	was isolated and contaminated soil	was contained	on site. Approximately 16.7
bbls of liquid released.			
Describe Area Affected and Cleanup Action Taken.*			
A liquid spill of approximately 16.7 bbls of amine solution was released	l. All liquids were confined to the fa	cility site. Rem	ediation actions followed the
Enterprise General Release Notification, Response and Remediation P	lan (March 9 2015)		
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	····· (1116) (11), 2013).		
Therefore equiler that the information gives along in the set of equilate to	4 - 1	1.1.	A NROOP 1 1
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursua	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	notifications and perform corrective a	ctions for release	ses which may endanger
public health or the environment. The acceptance of a C-141 report by the	ne NMOCD marked as "Final Report"	does not reliev	ve the operator of liability
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water, s	surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report of	does not relieve the operator of respon	sibility for con	poliance with any other
federal, state, or local laws and/or regulations.	actor interesting and operator of respon	01011119 101 001	iphanoo wini any outor
Tederal, state, or total lays and of regulators.			
	OIL CONSER	<u>VATION L</u>	DIVISION
Signature: The Turk			
	Approved by District Supervisor:		
Printed Name: Jon E. Fields	reproved by District Supervisor.		
		· · · · · · · · · · · · · · · · · · ·	
Title: Director, Field Environmental	Ammercual Datas	E-minstion D.	-4
Title: Director, Field Environmental	Approval Date:	Expiration Da	
E-mail Address: jefields@eprod.com	Conditions of Approval:		Attached 🗖
1 hours			Attached
Date: //7/7017 Phone: 713-381-6684			

* Attach Additional Sheets If Necessary

LLC

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Revised August 8, 2011 Copy to appropriate District Office in

220 South St. Francis Dr Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

2RP-3492

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Enterprise Field Services, LLC	Contact Alena Miro		
PO Box 4324, Houston, TX 77210	Telephone No. 575-628-6802		
Facility Name South Eddy Cryo Plant	Facility Type: Natural Gas Pr	ocessing Plant	
Surface Owner Enterprise Field Services, Mineral Own	er NA	Lease No. NA	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	1	25S	30E	244	South	628	East	Eddy

Latitude: <u>N 32.160280</u> Longitude: <u>W-103.827811</u>

NATURE OF RELEASE

Type of Release Amine liquid and process material	Volume of Release: 20 bbl liquids	Volume Recovered: 15 bbl liquids	
Source of Release Sump overfill	Date and Hour of Occurrence	Date and Hour of Discovery	
A U	10/04/2016 @ 18:00 MST	10/04/2016 @ 18:00 MST	
Was Immediate Notice Given?	If YES, To Whom?	1	
🗋 Yes 🔲 No 🛛 Not Required			
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.	
🛄 Yes 🛛 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*		· · · · · · · · · · · · · · · · · · ·	
Amine system liquids were released due to a sump overflow. The sump bbls of liquid released.	was isolated and contaminated soil	was contained on site. Approximately 20	
Describe Area Affected and Cleanup Action Taken.*			
A liquid spill of approximately 20 bbls of amine solution was released.	All liquids were confined to the faci	ility site. Remediation actions followed the	
Enterprise General Release Notification, Response and Remediation Pl		-	
I hereby certify that the information given above is true and complete to t	he best of my knowledge and underst	tand that pursuant to NMOCD rules and	
regulations all operators are required to report and/or file certain release r	notifications and perform corrective a	ctions for releases which may endanger	
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of liability	
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water, surface water, human health	
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for compliance with any other	
federal, state, or local laws and/or regulations.			
	OIL CONSER	VATION DIVISION	
Signature: M. Kuld			
	Approved by District Supervisor:		
Printed Name: Jon E. Fields			
	4 10		
Title: Director, Field Environmental	Approval Date:	Expiration Date:	
E-mail Address: jefields@eprod.com	Conditions of Approval:		
	Attached		
Date: 1/17/7/17 Phone: 713-381-6684			

* Attach Additional Sheets If Necessary



January 11, 2017

Reference No. 11135027

Ms. Alena Miro Sr. Environmental Engineer Enterprise Products Company 3008 East Greene Street Carlsbad, NM 88220-9772 VIA E-Mail: ampolk@eprod.com

Dear Ms. Miro:

Re: Assessment Summary Report South Eddy Cryo Plant Enterprise Products LLC 2RP-3492 and 2RP-3493 Site Location: Sec. 1, T 25-S, R 31-E (Lat 32.163336°, Long -103.840086°) Eddy County, New Mexico

On behalf of Enterprise Products Company (Enterprise), GHD Services, Inc. (GHD, formerly Conestoga Rovers & Associates) is pleased to present this report for the above referenced site. Assessment activities were performed at the South Eddy Cryo Plant Site (hereafter referred to as the "Site"). Field work and data collected for the Site was performed by GHD Staff. The Site is located within Section 1, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1).

The Site is located approximately 27 miles southeast of Carlsbad, New Mexico. Two releases occurred at the Site over a short period of time. The first occurred on October 4, 2016 with a release of approximately 20 barrels (bbls) of amine solution. The amine solution is methyl-diethanolamine (MDEA). This release was assessed and sampled by GHD personnel and the contaminated soil was removed. The second incident occurred on October 8, 2016. During this release, approximately 16.7 bbls of amine solution was released. Both releases occurred from a sump overflow located at the base of a pump directly south of the main compressor piping. A Form C 141 was submitted to the New Mexico Oil Conservation Division (NMOCD) for each release (total of two forms submitted) on October 17, 2016 (See Appendix A).

1. Recommended Remediation Action Limits

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on USGS groundwater information there are two wells within a 2-3 mile radius of the Site that have a depth to groundwater between 350 and 400 ft below ground surface (bgs). There is one well that is 4.47 miles from the Site that has the depth to groundwater at 65-70 ft bgs. GHD believes that this is representative of the depth to shallow groundwater in the area of the Site.

GHD

6121 Indian School Road NE Suite 200 Albuquerque New Mexico 87110 USA

T 505 884 0672 F 505 884 4932 W www.ghd.com



There do not appear to be any well head protection areas and no surface water bodies within 200 ft to 1000 ft of the Site. Therefore, the preliminary total ranking score for the Site is 10 (see table below).

Based on this score, the applicable NMOCD Site specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1000 mg/kg for total petroleum hydrocarbons (TPH), and 250 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (> 50 ft bgs, <100 ft bgs)	10
Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (200-1000 ft)	0
Ranking Criteria Total Score	10*
*The ranking criteria total score of 10 equates to NMOCD established RRALs of	10 mg/kg for

*The ranking criteria total score of 10 equates to NMOCD established RRALs of 10 mg/kg for benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH¹, and 250 mg/kg for chlorides.

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

During October 2016, Enterprise Products contracted GHD to assess the extent of the release. TWC LLC was contracted to excavate impacted soils and assist with the assessment. Initial assessment activities were performed using visual screening and sampling.

On October 13th, 2016 GHD returned to the site to sample the second release and perform site assessment activities. Soil samples were collected for laboratory analysis of benzene, toluene, ethylbenzene and xylene (BTEX) by EPA Method 8021, total petroleum hydrocarbon (TPH) diesel range organics (DRO) and gasoline range organics (GRO) by EPA Method 8015 (Appendix B). The samples were analyzed by Xenco Laboratories (Xenco) in Midland, Texas. The samples were also analyzed for MDEA by Xenco using their proprietary method.

In order to assess the vertical extent of the contamination sample locations were selected at the far extents of the area where the ground cover had been removed (Figure 2). Samples were collected using 4 oz. soil jars at depths of 12 inch (in.) to 18 in. bgs. Soil samples were collected, packed on ice, and shipped to Xenco.

The analytical results of the soil samples collected indicated that both BTEX and TPH concentrations from 12 in. to 18 in. in depth were below the laboratory reporting limits. Based on this, it appears that the vertical extent of petroleum hydrocarbons and BTEX has been assessed. The horizontal extent has been assessed in the northern, southern, and western directions of the release (Figure 2).



The impacted soils were excavated and placed in roll-off containers. The soil was disposed of at the Lea Land Landfill located on Highway 62/180 between Hobbs and Carlsbad, New Mexico (see attached manifests in Appendix C).

3. Conclusions and Recommendations

Concentrations of petroleum hydrocarbons were not detected above the laboratory reporting limit (LRL) in any of the samples collected. The soil sample collected adjacent to the release area was the only sample to indicate the presence of significant concentrations of MDEA.

GHD, on behalf of Enterprise is requesting that no further action be required for the Site. This is based on the following mitigating conditions:

- Petroleum hydrocarbons were not detected in any of the samples collected.
- MDEA was not detected in any significant concentrations with the exception of the sample located adjacent to the release area.
- There is no surface water or wells in the vicinity of the Site.
- The potential to impact groundwater is minimal given the depth (65 to 70 ft bgs).

Should you have any questions, or require additional information regarding this submittal, please feel free to contact Bernie Bockisch at (505) 884 0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD

due la Neigh

Charles Neligh Project Scientist

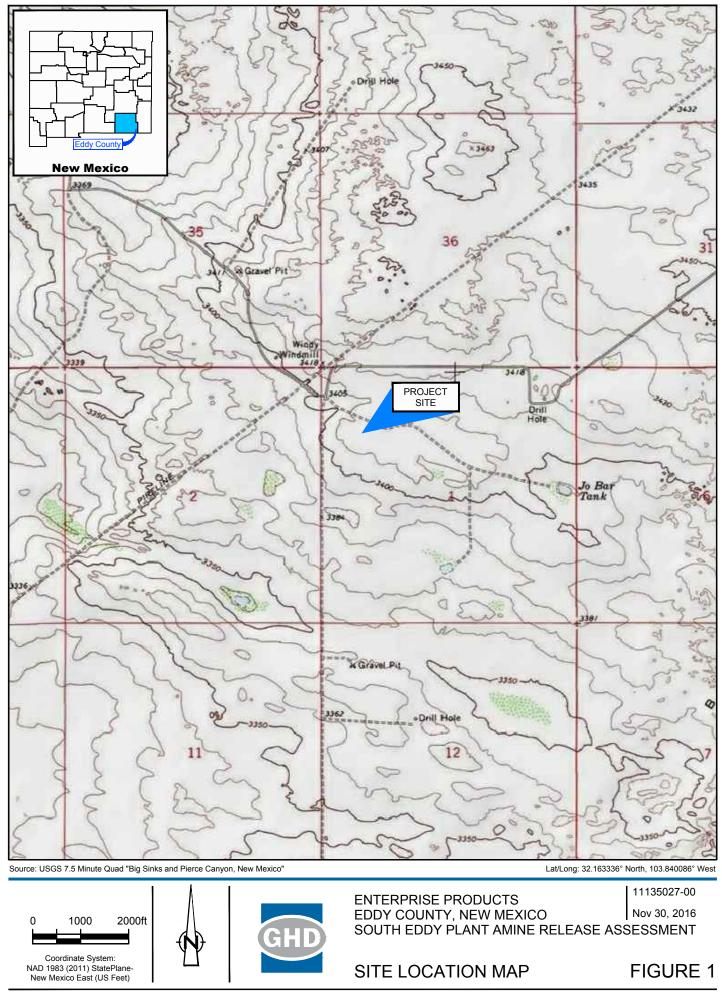
BB/mc/02

Bernard Bockisch Project Manager PPM

Figures

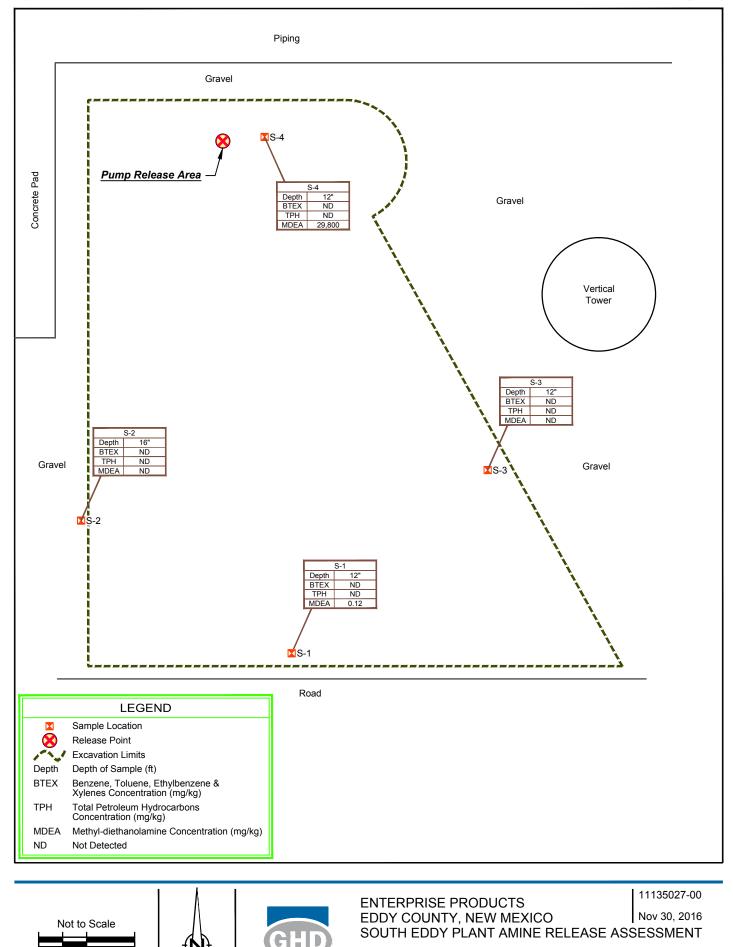
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11135027 Assessment Summary Report



CAD File: MCADJFiles/Elight Job Numbers/1113-__11135027-Enterprise-Amine Release Assessment/11135027-00(000)GN-DL001.dwg Released to Imaging: 12/5/2024 9:52:04 AM

FIGURE 2



SITE DETAILS

Appendices

•

11135027 Assessment Summary Report

Appendix A C-141 Release Reports

11135027 Assessment Summary Report

Released to Imaging: 12/5/2024 9:52:04 AM

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

Page 12 of 59

Oil Conservation Division 1220 South St. Francis Dr.

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

Santa I	Fe, NM 87505		
Release Notification	on and Corrective Acti	on	
	OPERATOR	🛛 Initia	l Report 🗌 Final Report
Name of Company Enterprise Field Services LLC	Contact Alena Miro		
PO Box 4324, Houston, TX 77210	Telephone No. 575-628-6802		
Facility Name South Eddy Cryo Plant	Facility Type: Natural Gas Pr	ocessing Pla	nt
Surface Owner Enterprise Field Services Mineral Owner LLC Image: Service	NA	Lease N	o. <i>NA</i>
LOCATIO	ON OF RELEASE		
		st/West Line	County
H 1 25S 30E 244	South Line Feet from the Las	East	Eddy
Latitude: <u>N 32.160280</u>	Longitude: <u><i>W-103.827811</i></u>		
NATURE	E OF RELEASE		
Type of Release Amine liquid and process material	Volume of Release: 20 bbl	Volume R	ecovered: 15 bbl liquids
Source of Release Sump overfill	liquids Date and Hour of Occurrence	Date and H	Hour of Discovery
	10/04/2016 @ 18:00 MST		6 @ 18:00 MST
Was Immediate Notice Given?	If YES, To Whom?		
🗌 Yes 🔲 No 🖾 Not Required	1		
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.	
🗌 Yes 🖾 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*	• * . * * . • . * *		
Amine system liquids were released due to a sump overflow. The sump bbls of liquid released.) was isolatea ana contaminatea sou	was contained	on site. Approximately 20
Describe Area Affected and Cleanup Action Taken.*			
A liquid spill of approximately 20 bbls of amine solution was released.	All liquids were confined to the fac	cility site. Reme	ediation actions will follow the
Enterprise, General Release Notification, Response and Remediation			······································
I hereby certify that the information given above is true and complete to	the best of my knowledge and unders	stand that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release t	notifications and perform corrective a	ictions for relea	ases which may endanger
public health or the environment. The acceptance of a C-141 report by the	he NMOCD marked as "Final Report	" does not relie	we the operator of liability
should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of	does not relieve the operator of respect	ground water,	surface water, human health
federal, state, or local lawsand/or regulations.	does not reneve the operator of respo	isionity for co.	inpliance with any other
	OIL CONSER	VATION	DIVISION
Simular Charles II	<u>OIL CONDER</u>		
Signature: W. Turk			
Printed Name: Jon E. Fields	Approved by District Supervisor:		
Title: Director, Field Environmental	Approval Date:	Expiration D	late:
E-mail Address: jefields@eprod.com	Conditions of Approval:		Attached

Date: 10/11/2011 * Attach Additional Sheets If Necessary

Phone: 713-381-6684

Mendez, Brenda

From:	Mendez, Brenda
Sent:	Monday, October 17, 2016 2:10 PM
То:	'mike.bratcher@state.nm.us';
Cc:	Ferguson, Dina; Miro, Alena; Nolan, Shiver
Subject:	South Eddy Cryo Plant C141 (10-8-16)
Attachments:	South Eddy Cryo C141 Release Report (10-8) October 2016.pdf

Attached is the C-141 Form for the South Eddy Cryo Plant for October 8, 2016.

If you have questions or need additional information, please contact Alena Miro at 575-628-6802.

Thank you **Brenda J. Mendez – Planning and Reports Analyst** Enterprise Products Operating, LLC Tel (713) 381-8270 – Fax (713) 880-6660 <u>bjmendez@eprod.com</u>

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action										
						OPERA	ГOR	🔀 Initia	al Report	Final Report
Name of Co	ompany <i>En</i>					Contact	Alena Mire			
PO Box 4324, Houston, TX 77210							No. 575-628-68			*
Facility Name South Eddy Cryo Plant						Facility Typ	e: Natural Ga	s Processing Pla	nt	
Surface Owner Enterprise Field Services Mineral Owner LLC						NA		Lease N	lo. NA	
				LOCA	TIO	N OF RE	LEASE			
Unit Letter H	Section 1	Township 25S	Range 30E	Feet from the 244		South Line South	Feet from the 628	East/West Line East	County Eddy	
			I	atitude: <u>N 32.1</u>	60280	Longitu	de: <u><i>W-103.8278</i></u>	211		
				NAT	URE	OF REL	EASE			
Type of Rele	ase Amine	liquid and pr	ocess ma	terial		Volume of <i>liquids</i>	Release: 16.7 bb	ls Volume R	ecovered: i	0 bbls liquids
Source of Re	lease Sump	o overfill					lour of Occurrence		Hour of Disc 6 @ 06:00 M	
Was Immedi	ate Notice Gi		Yes 🗌	No 🛛 Not Re	quired	If YES, To				
By Whom?						Date and H	lour			
Was a Water	course Reach					If YES, Vo	lume Impacting t	he Watercourse.		
			Yes 🛛	No						
If a Watercou	irse was Impa	acted, Descri	be Fully.*	κ.						
Describe Cau Amine system					e sump y	was isolated a	and contaminated	soil was contained	l on site. An	proximately 16.7
bbls of liquid	l released.									, , , , , , , , , , , , , , , , , , ,
Describe Are					alonnod	All liquido	were confined to	the facility site. Re		
				te solution was re Response and Ren				ine jacuny sue. Ke	meutation a	tions will jouow
I hereby certi	fy that the int	formation giv	en above	is true and compl	ete to th	e best of my	knowledge and ur	derstand that purs	ant to NMC	CD rules and
regulations al	l operators an	re required to	report an	d/or file certain re	elease no	tifications an	d perform correct	ive actions for rele	ases which r	nay endanger
should their c	or the enviro	nment. Ine	acceptanc decuately	e of a C-141 repo	rt by the mediate	NMOCD ma	irked as "Final Re	port" does not relie at to ground water,	eve the operation surface wat	tor of liability
or the enviror	nment. In add	dition, NMO	CD accept	tance of a C-141 1	report do	es not reliev	e the operator of r	esponsibility for co	mpliance wi	th any other
federal, state,	or local laws	and/or regul	ations.				0.11 0.03.10			
Signature:		(fur					OIL CONS	SERVATION :	DIVISIO	<u>N</u>
Printed Name	: Jon E. F	ields	×			Approved by	District Superviso	r:		
Title:	Director	r, Field Envi	ronmenta	d	A	Approval Date	e:	Expiration I	Date:	
E-mail Addre	ss: <u>jefields(</u>	@eprod.com			c	Conditions of	Approval:		Attached	
Date: 10/1	1/2016 I	Phone: 713	-381-6684	1					-	

* Attach Additional Sheets If Necessary

Phone: 713-381-6684



Univar USA Inc Material Safety Data Sheet

MSDS No:	UCC95241
Version No:	010 2012-02-09
Order No:	

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052 (425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300

Page 16 of 59 MSDS NO:UCC95241 VERSION:010 2012-02-09



Material Safety Data Sheet

The Dow Chemical Company

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011 Print Date: 23 Jan 2012

The Dow Chemical Company encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.



Product Name

UCARSOL[™] AP SOLVENT 814

COMPANY IDENTIFICATION

The Dow Chemical Company 2030 Willard H. Dow Center Midland, MI 48674 United States

Customer Information Number:

800-258-2436 SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: Local Emergency Contact: 989-636-4400 989-636-4400

2. Hazards Identification

Emergency Overview

Color: Colorless to yellow Physical State: Liquid. Odor: Ammoniacal Hazards of product:

> DANGER! Causes severe eye burns. Causes burns of the mouth and throat. Prolonged exposure may cause skin burns. May cause allergic skin reaction. May be harmful if swallowed. Aspiration hazard. Can enter lungs and cause damage. Evacuate area. Keep upwind of spill. Stay out of low areas.

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects

Eye Contact: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

®(TM)*Trademark

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

Skin Contact: Prolonged contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts. **Skin Sensitization:** Skin contact may cause an allergic skin reaction. Contains component(s) which have demonstrated the potential for contact allergy in mice. Individuals who have had an allergic skin reaction to similar materials may have an allergic skin reaction to this product. The similar material(s) is/are: Triethylenetetramine (TETA).

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. If material is heated or aerosol/mist is produced, concentrations may be attained that are sufficient to cause respiratory irritation and other effects. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening. **Ingestion:** Low toxicity if swallowed. Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation or ulceration. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

Aspiration hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Birth Defects/Developmental Effects: For the minor component(s): Has caused birth defects in laboratory animals only at doses toxic to the mother. Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

Reproductive Effects: For the minor component(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility.

3. Composition Information

Component	CAS #	Amount
Substituted amine (1)	Trade secret	> 65.0 %
Substituted amine (2)	Trade secret	> 15.0 %
Water	7732-18-5	7.0 - 9.0 %

4. First-aid measures

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin Contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye Contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Chemical eye burns

Page 2 of 9

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

5. Fire Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Extinguishing Media to Avoid: Do not use direct water stream. May spread fire.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide. **Unusual Fire and Explosion Hazards:** Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate area. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. Ventilate area of leak or spill. Keep personnel out of low areas. Only trained and properly protected personnel must be involved in clean-up operations. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Small spills: Absorb with materials such as: Non-combustible material. Clay. Vermiculite. Zorb-all®. Do NOT use absorbent materials such as: Ground corn cobs. Moist organic absorbents. Peat moss. Cellulose. Sawdust. Large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling

Issue Date: 02/23/2011

General Handling: Do not get in eyes. Do not swallow. Avoid breathing vapor. Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. **Other Precautions:** Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Storage

Store in accordance with good manufacturing practices. Use only with adequate ventilation. Do not store in: Aluminum. Copper. Copper alloys. Galvanized containers. Zinc. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact.

Storage Period: Bulk 18 Months Metal drums. 36 Months

8. Exposure Controls / Personal Protection

Exposure Limits

Component List Type Val	lue
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None established

Personal Protection

Eye/Face Protection: Use chemical goggles.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls

Ventilation: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Appearance

Physical State

Liquid.

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

Color Odor Odor Threshold pH Melting Point Freezing Point Boiling Point (760 mmHg) Flash Point - Closed Cup Flash Point - Open Cup Evaporation Rate (Butyl Acetate = 1) Flammability (solid, gas) Flammable Limits In Air	Colorless to yellow Ammoniacal No test data available 11 <i>Literature</i> Not applicable -48 °C (-54 °F) <i>Literature</i> Pour point 126 °C (259 °F) <i>Literature</i> . 102 °C (216 °F) <i>ASTM D93</i> 132 °C (270 °F) <i>Cleveland Open Cup ASTM D92</i> 0.5 <i>Literature</i> Not applicable to liquids Lower : No test data available
Vapor Pressure Vapor Density (air = 1) Specific Gravity (H2O = 1) Solubility in water (by weight) Partition coefficient, n- octanol/water (log Pow) Autoignition Temperature Decomposition Temperature Kinematic Viscosity Molecular Weight	Upper: No test data available 4.6 mmHg @ 20 °C Literature 2.8 Literature 1.045 20 °C/20 °C Literature 100 % @ 20 °C Literature No data available for this product. See Section 12 for individual component data. 304 - 307 °C (579 - 585 °F) Literature No test data available No test data available

10. Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use. **Chemical stability** Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions

Polymerization will not occur.

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose.

Incompatible Materials: Avoid contact with: Acrylates. Alcohols. Aldehydes. Ketones. Nitrites. Strong acids. Strong oxidizers. Avoid contact with metals such as: Aluminum. Copper. Copper alloys. Galvanized metals. Zinc. Avoid unintended contact with: Halogenated hydrocarbons. Avoid contact with absorbent materials such as: Ground corn cobs. Moist organic absorbents. Peat moss. Sawdust.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity

Ingestion Single dose oral LD50 has not been determined. Dermal The dermal LD50 has not been determined. Inhalation As product: The LC50 has not been determined. Eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Skin corrosion/irritation

Prolonged contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Sensitization

Skin

Skin contact may cause an allergic skin reaction. Contains component(s) which have demonstrated the potential for contact allergy in mice. Individuals who have had an allergic skin reaction to similar materials may have an allergic skin reaction to this product. The similar material(s) is/are: Triethylenetetramine (TETA).

Repeated Dose Toxicity

For the component(s) tested: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Chronic Toxicity and Carcinogenicity

For the minor component(s): Did not cause cancer in laboratory animals.

Developmental Toxicity

For the minor component(s): Has caused birth defects in laboratory animals only at doses toxic to the mother. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. For the major component(s): Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

Reproductive Toxicity

For the minor component(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility.

Genetic Toxicology

For all components. In vitro genetic toxicity studies were negative. For all components. Animal genetic toxicity studies were negative.

12. Ecological Information

Toxicity

Data for Component: Substituted amine (1)

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity

LC50, golden orfe (Leuciscus idus), static, 96 h: 1,466 mg/l LC50, fathead minnow (Pimephales promelas), static, 96 h: 1,200 mg/l **Aquatic Invertebrate Acute Toxicity** EC50, water flea Daphnia magna, static, 48 h, immobilization: 2,330 mg/l **Aquatic Plant Toxicity** EC50, green alga Desmodesmus subspicatus, static, Growth rate inhibition, 72 h: > 100 mg/l Data for Component: Substituted amine (2) Material is slightly toxic to fish on an acute basis (LC50 between 10 and 100 mg/L).

Fish Acute & Prolonged Toxicity LC50, guppy (Poecilia reticulata), static renewal, 96 h: > 1,800 mg/l Aquatic Invertebrate Acute Toxicity EC50, water flea Daphnia magna, static, 48 h, immobilization: 21 mg/l Aquatic Plant Toxicity EC50, green alga Pseudokirchneriella subcapitata (formerly known as Selenastrum capricornutum), Growth inhibition (cell density reduction), 72 h: 130 mg/l NOEC, Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata), static, Growth rate inhibition, 72 h: > 1,000 mg/l Toxicity to Micro-organisms IC50; bacteria, 16 h: > 5,000 mg/l

Persistence and Degradability

Data for Component: Substituted amine (1)

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

OECD Biodegradation	n Tests:			
Biodegradation	Exposure Time	Method		10 Day Window
96 %	18 d	OECD 301A	Test	pass
Indirect Photodegrad	ation with OH Radicals			
Rate Constant	Atmosphe	ric Half-life		Method
9.70E-11 cm3/s	1.3	24 h		Estimated.
Biological oxygen demand (BOD):				
BOD 5	BOD 10	BOD 20		BOD 28
40 %				42 %
Theoretical Oxygen D				

Data for Component: Substituted amine (2)

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
> 90 %	28 d	OECD 302B Test	Not applicable
65.3 %	28 d	OECD 301F Test	pass
Indirect Photodegrad	ation with OH Radicals	;	
Rate Constant	Atmosphe	eric Half-life	Method
1.69E-10 cm3/s	2.	8 h	Estimated.

Bioaccumulative potential

Data for Component: Substituted amine (1)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient, n-octanol/water (log Pow): -1.08 Measured Data for Component: Substituted amine (2)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient, n-octanol/water (log Pow):** -1.24 Measured **Bioconcentration Factor (BCF):** < 3.9; fish; Measured

Mobility in soil

Data for Component: Substituted amine (1)

Mobility in soil: Potential for mobility in soil is high (Koc between 50 and 150). Partition coefficient, soil organic carbon/water (Koc): 53 Estimated. Henry's Law Constant (H): 9E-06 Pa m³/mol; 25 °C Estimated.

Data for Component: Substituted amine (2)

Mobility in soil: Potential for mobility in soil is low (Koc between 500 and 2000). Partition coefficient, soil organic carbon/water (Koc): 507 Measured Henry's Law Constant (H): 2.2E-02 Pa*m3/mole. Estimated.

13. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE

Product Name: UCARSOL(TM) AP SOLVENT 814

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PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. Transport Information

DOT Non-Bulk NOT REGULATED

DOT Bulk NOT REGULATED

IMDG NOT REGULATED

ICAO/IATA NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Substituted amine (2)	Trade secret	> 15.0 %

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

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Issue Date: 02/23/2011

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16.	Other Information	

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System

i lana i lating	o y o co		
NFPA	Health	Fire	Reactivity
	3	1	0

Recommended Uses and Restrictions

Carbon dioxide removal. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Revision

Identification Number: 1511 / 1001 / Issue Date 02/23/2011 / Version: 5.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Legena	
N/A	Not available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL which will trigger the need for
	activities such as exposure monitoring and medical surveillance if exceeded.

The Dow Chemical Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDS obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process

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Material Safety Data Sheet

The Dow Chemical Company

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011 Print Date: 23 Jan 2012

The Dow Chemical Company encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.



Product Name

UCARSOL™ AP SOLVENT 814

COMPANY IDENTIFICATION

The Dow Chemical Company 2030 Willard H. Dow Center Midland, MI 48674 United States

Customer Information Number:

800-258-2436 SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: Local Emergency Contact: 989-636-4400 989-636-4400

2. Hazards Identification

Emergency Overview

Color: Colorless to yellow Physical State: Liquid. Odor: Ammoniacal Hazards of product:

> DANGER! Causes severe eye burns. Causes burns of the mouth and throat. Prolonged exposure may cause skin burns. May cause allergic skin reaction. May be harmful if swallowed. Aspiration hazard. Can enter lungs and cause damage. Evacuate area. Keep upwind of spill. Stay out of low areas.

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects

Eye Contact: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

®(TM)*Trademark

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

Skin Contact: Prolonged contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts. **Skin Sensitization:** Skin contact may cause an allergic skin reaction. Contains component(s) which have demonstrated the potential for contact allergy in mice. Individuals who have had an allergic skin reaction to similar materials may have an allergic skin reaction to this product. The similar material(s) is/are: Triethylenetetramine (TETA).

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. If material is heated or aerosol/mist is produced, concentrations may be attained that are sufficient to cause respiratory irritation and other effects. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening. **Ingestion:** Low toxicity if swallowed. Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation or ulceration. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

Aspiration hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Birth Defects/Developmental Effects: For the minor component(s): Has caused birth defects in laboratory animals only at doses toxic to the mother. Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

Reproductive Effects: For the minor component(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility.

3. Composition Information

Component	CAS #	Amount
Substituted amine (1)	Trade secret	> 65.0 %
Substituted amine (2)	Trade secret	> 15.0 %
Water	7732-18-5	7.0 - 9.0 %

4. First-aid measures

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin Contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye Contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Chemical eye burns

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Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

5. Fire Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Extinguishing Media to Avoid: Do not use direct water stream. May spread fire.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide. **Unusual Fire and Explosion Hazards:** Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate area. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. Ventilate area of leak or spill. Keep personnel out of low areas. Only trained and properly protected personnel must be involved in clean-up operations. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Small spills: Absorb with materials such as: Non-combustible material. Clay. Vermiculite. Zorb-all®. Do NOT use absorbent materials such as: Ground corn cobs. Moist organic absorbents. Peat moss. Cellulose. Sawdust. Large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling

Issue Date: 02/23/2011

General Handling: Do not get in eyes. Do not swallow. Avoid breathing vapor. Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. **Other Precautions:** Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Storage

Store in accordance with good manufacturing practices. Use only with adequate ventilation. Do not store in: Aluminum. Copper. Copper alloys. Galvanized containers. Zinc. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact.

Storage Period: Bulk 18 Months Metal drums. 36 Months

8. Exposure Controls / Personal Protection

Exposure Limits

Component List Type Value

None established

Personal Protection

Eye/Face Protection: Use chemical goggles.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls

Ventilation: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Appearance

Physical State

Liquid.

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

Color Odor Odor Threshold pH Melting Point Freezing Point Boiling Point (760 mmHg) Flash Point - Closed Cup Flash Point - Open Cup Evaporation Rate (Butyl Acetate = 1) Flammability (solid, gas)	Colorless to yellow Ammoniacal No test data available 11 <i>Literature</i> Not applicable -48 °C (-54 °F) <i>Literature</i> Pour point 126 °C (259 °F) <i>Literature</i> . 102 °C (216 °F) <i>ASTM D93</i> 132 °C (270 °F) <i>Cleveland Open Cup ASTM D92</i> 0.5 <i>Literature</i> Not applicable to liquids
Flammable Limits In Air	Lower: No test data available Upper: No test data available
Vapor Pressure Vapor Density (air = 1) Specific Gravity (H2O = 1) Solubility in water (by weight)	4.6 mmHg @ 20 °C Literature 2.8 Literature
Partition coefficient, n- octanol/water (log Pow) Autoignition Temperature Decomposition Temperature Kinematic Viscosity Molecular Weight	No data available for this product. See Section 12 for individual component data. 304 - 307 °C (579 - 585 °F) <i>Literature</i> No test data available No test data available 106 g/mol

10. Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use. **Chemical stability** Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions

Polymerization will not occur.

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose.

Incompatible Materials: Avoid contact with: Acrylates. Alcohols. Aldehydes. Ketones. Nitrites. Strong acids. Strong oxidizers. Avoid contact with metals such as: Aluminum. Copper. Copper alloys. Galvanized metals. Zinc. Avoid unintended contact with: Halogenated hydrocarbons. Avoid contact with absorbent materials such as: Ground corn cobs. Moist organic absorbents. Peat moss. Sawdust.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity

Ingestion Single dose oral LD50 has not been determined. Dermal The dermal LD50 has not been determined. Inhalation As product: The LC50 has not been determined. Eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Skin corrosion/irritation

Prolonged contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Sensitization

Skin

Skin contact may cause an allergic skin reaction. Contains component(s) which have demonstrated the potential for contact allergy in mice. Individuals who have had an allergic skin reaction to similar materials may have an allergic skin reaction to this product. The similar material(s) is/are: Triethylenetetramine (TETA).

Repeated Dose Toxicity

For the component(s) tested: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Chronic Toxicity and Carcinogenicity

For the minor component(s): Did not cause cancer in laboratory animals.

Developmental Toxicity

For the minor component(s): Has caused birth defects in laboratory animals only at doses toxic to the mother. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. For the major component(s): Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

Reproductive Toxicity

For the minor component(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility.

Genetic Toxicology

For all components. In vitro genetic toxicity studies were negative. For all components. Animal genetic toxicity studies were negative.

12. Ecological Information

Toxicity

Data for Component: Substituted amine (1)

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity

LC50, golden orfe (Leuciscus idus), static, 96 h: 1,466 mg/l LC50, fathead minnow (Pimephales promelas), static, 96 h: 1,200 mg/l **Aquatic Invertebrate Acute Toxicity** EC50, water flea Daphnia magna, static, 48 h, immobilization: 2,330 mg/l **Aquatic Plant Toxicity** EC50, green alga Desmodesmus subspicatus, static, Growth rate inhibition, 72 h: > 100 mg/l Data for Component: Substituted amine (2) Material is slightly toxic to fish on an acute basis (LC50 between 10 and 100 mg/L).

Fish Acute & Prolonged Toxicity LC50, guppy (Poecilia reticulata), static renewal, 96 h: > 1,800 mg/l Aquatic Invertebrate Acute Toxicity EC50, water flea Daphnia magna, static, 48 h, immobilization: 21 mg/l Aquatic Plant Toxicity EC50, green alga Pseudokirchneriella subcapitata (formerly known as Selenastrum capricornutum), Growth inhibition (cell density reduction), 72 h: 130 mg/l NOEC, Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata), static, Growth rate inhibition, 72 h: > 1,000 mg/l Toxicity to Micro-organisms IC50; bacteria, 16 h: > 5,000 mg/l

Persistence and Degradability

Data for Component: Substituted amine (1)

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method		10 Day Window
96 %	18 d	OECD 301A	Test	pass
Indirect Photodegradation with OH Radicals				
Rate Constant	Atmosphe	Atmospheric Half-life Method		Method
9.70E-11 cm3/s	1.3	24 h		Estimated.
Biological oxygen demand (BOD):				
BOD 5	BOD 10	BOD 20		BOD 28
40 %				42 %
Theoretical Oxygen D	emand: 2 29 ma/ma			

Theoretical Oxygen Demand: 2.29 mg/mg

Data for Component: Substituted amine (2)

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
> 90 %	28 d	OECD 302B Test	Not applicable
65.3 %	28 d	OECD 301F Test	pass
Indirect Photodegradation with OH Radicals			
Rate Constant	tant Atmospheric Half-life		Method
1.69E-10 cm3/s	2.	8 h	Estimated.

Bioaccumulative potential

Data for Component: Substituted amine (1)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient, n-octanol/water (log Pow): -1.08 Measured Data for Component: Substituted amine (2)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient, n-octanol/water (log Pow):** -1.24 Measured **Bioconcentration Factor (BCF):** < 3.9; fish; Measured

Mobility in soil

Data for Component: Substituted amine (1)

Mobility in soil: Potential for mobility in soil is high (Koc between 50 and 150). Partition coefficient, soil organic carbon/water (Koc): 53 Estimated. Henry's Law Constant (H): 9E-06 Pa m³/mol; 25 ℃ Estimated.

Data for Component: Substituted amine (2)

Mobility in soil: Potential for mobility in soil is low (Koc between 500 and 2000). Partition coefficient, soil organic carbon/water (Koc): 507 Measured Henry's Law Constant (H): 2.2E-02 Pa*m3/mole. Estimated.

13. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE

Product Name: UCARSOL(TM) AP SOLVENT 814

Issue Date: 02/23/2011

PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. Transport Information

DOT Non-Bulk NOT REGULATED

DOT Bulk NOT REGULATED

IMDG NOT REGULATED

ICAO/IATA NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Substituted amine (2)	Trade secret	> 15.0 %

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

Page 8 of 9

Issue Date: 02/23/2011

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16.	Other Information	

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System

i lana i lating	o y o to		
NFPA	Health	Fire	Reactivity
	3	1	0

Recommended Uses and Restrictions

Carbon dioxide removal. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Revision

Identification Number: 1511 / 1001 / Issue Date 02/23/2011 / Version: 5.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Legena	
N/A	Not available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL which will trigger the need for
	activities such as exposure monitoring and medical surveillance if exceeded.

The Dow Chemical Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDS obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process

Appendix B Laboratory Analytical Report

11135027 Assessment Summary Report

Released to Imaging: 12/5/2024 9:52:04 AM

for GHD-Albuquerque, NM

Project Manager: Bernie Bockisch

Enterprise South Eddy

11135037

17-OCT-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





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Chain of Custody	13
Sample Receipt Conformance Report	15



17-OCT-16

Project Manager: **Bernie Bockisch GHD-Albuquerque, NM** 6121 Indian School Rd. NE Suite 200

Albuquerque, NM 87110

Reference: XENCO Report No(s): **538742** Enterprise South Eddy Project Address:

Bernie Bockisch:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 538742. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 538742 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America





Sample Cross Reference 538742



GHD-Albuquerque, NM, Albuquerque, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-11135037-101316-CN-SI	S	10-13-16 09:31	12 In	538742-001
S-11135037-101316-CN-S2	S	10-13-16 09:36	16 In	538742-002
S-11135037-101316-CN-S3	S	10-13-16 09:40	12 In	538742-003
S-11135037-101316-CN-S4	S	10-13-16 09:52	12 In	538742-004





CASE NARRATIVE



Client Name: GHD-Albuquerque, NM Project Name: Enterprise South Eddy

 Project ID:
 11135037

 Work Order Number(s):
 538742

Report Date: *17-OCT-16* Date Received: *10/14/2016*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3002116 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





GHD-Albuquerque, NM, Albuquerque, NM

Sample Id: S-11135037-101316-CN-SI Lab Sample Id: 538742-001	Matrix: Soil Date Collected: 10.13.16 09.31	Date Received:10.14.16 12.01 Sample Depth: 12 In
Analytical Method: TPH by SW 8015BTech:ARMAnalyst:ARMSeq Number:3002122	Date Prep: 10.14.16 16.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	C6C10GRO	ND	15.0		mg/kg	10.14.16 21.57	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	ND	15.0		mg/kg	10.14.16 21.57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	15.0		mg/kg	10.14.16 21.57	U	1
Total TPH	PHC635	ND	15.0		mg/kg	10.14.16 21.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	10.14.16 21.57		
o-Terphenyl		84-15-1	118	%	70-135	10.14.16 21.57		

Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	PJB			% Moisture:	
Analyst:	PJB	Date Prep:	10.14.16 18.00	Basis:	Wet Weight
Seq Number:	3002116				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00150		mg/kg	10.14.16 19.56	U	1
Toluene	108-88-3	ND	0.00200		mg/kg	10.14.16 19.56	U	1
Ethylbenzene	100-41-4	ND	0.00200		mg/kg	10.14.16 19.56	U	1
m,p-Xylenes	179601-23-1	ND	0.00200		mg/kg	10.14.16 19.56	U	1
o-Xylene	95-47-6	ND	0.00299		mg/kg	10.14.16 19.56	U	1
Total Xylenes	1330-20-7	ND	0.00200		mg/kg	10.14.16 19.56	U	1
Total BTEX		ND	0.00150		mg/kg	10.14.16 19.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	80-120	10.14.16 19.56		
1,4-Difluorobenzene		540-36-3	103	%	80-120	10.14.16 19.56		





GHD-Albuquerque, NM, Albuquerque, NM

Sample Id: S-11135037-101316-CN-S2 Lab Sample Id: 538742-002	Matrix: Soil Date Collected: 10.13.16 09.36	Date Received:10.14.16 12.01 Sample Depth: 16 In
Analytical Method:TPH by SW 8015BTech:ARMAnalyst:ARMSeq Number:3002122	Date Prep: 10.14.16 16.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight

Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6C10GRO	ND	15.0		mg/kg	10.14.16 22.22	U	1
C10C28DRO	ND	15.0		mg/kg	10.14.16 22.22	U	1
PHCG2835	ND	15.0		mg/kg	10.14.16 22.22	U	1
PHC635	ND	15.0		mg/kg	10.14.16 22.22	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	112	%	70-135	10.14.16 22.22		
	84-15-1	120	%	70-135	10.14.16 22.22		
	C6C10GRO C10C28DRO PHCG2835	C6C10GRO ND C10C28DRO ND PHCG2835 ND PHC635 ND Cas Number 111-85-3	C6C10GRO ND 15.0 C10C28DRO ND 15.0 PHCG2835 ND 15.0 PHC635 ND 15.0 Cas Number % Recovery 111-85-3 112	C6C10GRO ND 15.0 C10C28DRO ND 15.0 PHCG2835 ND 15.0 PHC635 ND 15.0 Cas Number % Witts 111-85-3 112 %	C6C10GRO ND 15.0 mg/kg C10C28DRO ND 15.0 mg/kg PHCG2835 ND 15.0 mg/kg PHC635 ND 15.0 mg/kg VICCAS ND 15.0 Timits 111-85-3 112 % 70-135	C6C10GRO ND 15.0 mg/kg 10.14.16 22.22 C10C28DRO ND 15.0 mg/kg 10.14.16 22.22 PHCG2835 ND 15.0 mg/kg 10.14.16 22.22 PHC635 ND 15.0 mg/kg 10.14.16 22.22 Cas Number % Units Limits Analysis Date 111-85-3 112 % 70-135 10.14.16 22.22	C6C10GRO ND 15.0 mg/kg 10.14.16 22.22 U C10C28DRO ND 15.0 mg/kg 10.14.16 22.22 U PHCG2835 ND 15.0 mg/kg 10.14.16 22.22 U PHCG2835 ND 15.0 mg/kg 10.14.16 22.22 U PHC635 ND 15.0 mg/kg 10.14.16 22.22 U Cas Number % Units Limits Analysis Date Flag 111-85-3 112 % 70-135 10.14.16 22.22 10

Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	PJB			% Moisture:	
Analyst:	PJB	Date Prep:	10.14.16 18.00	Basis:	Wet Weight
Seq Number:	3002116				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00150		mg/kg	10.14.16 20.12	U	1
Toluene	108-88-3	ND	0.00200		mg/kg	10.14.16 20.12	U	1
Ethylbenzene	100-41-4	ND	0.00200		mg/kg	10.14.16 20.12	U	1
m,p-Xylenes	179601-23-1	ND	0.00200		mg/kg	10.14.16 20.12	U	1
o-Xylene	95-47-6	ND	0.00299		mg/kg	10.14.16 20.12	U	1
Total Xylenes	1330-20-7	ND	0.00200		mg/kg	10.14.16 20.12	U	1
Total BTEX		ND	0.00150		mg/kg	10.14.16 20.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	80-120	10.14.16 20.12		
1,4-Difluorobenzene		540-36-3	96	%	80-120	10.14.16 20.12		





GHD-Albuquerque, NM, Albuquerque, NM

Sample Id: S-11135037-101316-CN-S3 Lab Sample Id: 538742-003	Matrix: Soil Date Collected: 10.13.16 09.40	Date Received:10.14.16 12.01 Sample Depth: 12 In
Analytical Method:TPH by SW 8015BTech:ARMAnalyst:ARMSeq Number:3002122	Date Prep: 10.14.16 16.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	C6C10GRO	ND	15.0		mg/kg	10.14.16 22.46	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	ND	15.0		mg/kg	10.14.16 22.46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	15.0		mg/kg	10.14.16 22.46	U	1
Total TPH	PHC635	ND	15.0		mg/kg	10.14.16 22.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	10.14.16 22.46		
o-Terphenyl		84-15-1	123	%	70-135	10.14.16 22.46		

Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	PJB			% Moisture:	
Analyst:	PJB	Date Prep:	10.14.16 18.00	Basis:	Wet Weight
Seq Number:	3002116				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00149		mg/kg	10.14.16 20.28	U	1
Toluene	108-88-3	ND	0.00199		mg/kg	10.14.16 20.28	U	1
Ethylbenzene	100-41-4	ND	0.00199		mg/kg	10.14.16 20.28	U	1
m,p-Xylenes	179601-23-1	ND	0.00199		mg/kg	10.14.16 20.28	U	1
o-Xylene	95-47-6	ND	0.00298		mg/kg	10.14.16 20.28	U	1
Total Xylenes	1330-20-7	ND	0.00199		mg/kg	10.14.16 20.28	U	1
Total BTEX		ND	0.00149		mg/kg	10.14.16 20.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	80-120	10.14.16 20.28		
1,4-Difluorobenzene		540-36-3	96	%	80-120	10.14.16 20.28		





GHD-Albuquerque, NM, Albuquerque, NM

Sample Id: S-11135037-101316-CN-S4 Lab Sample Id: 538742-004	Matrix: Soil Date Collected: 10.13.16 09.52	Date Received:10.14.16 12.01 Sample Depth: 12 In
Analytical Method:TPH by SW 8015BTech:ARMAnalyst:ARMSeq Number:3002122	Date Prep: 10.14.16 16.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	C6C10GRO	ND	15.0		mg/kg	10.14.16 23.14	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	ND	15.0		mg/kg	10.14.16 23.14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	15.0		mg/kg	10.14.16 23.14	U	1
Total TPH	PHC635	ND	15.0		mg/kg	10.14.16 23.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	110	%	70-135	10.14.16 23.14		
o-Terphenyl		84-15-1	117	%	70-135	10.14.16 23.14		

Analytical Me	thod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	РЈВ			% Moisture:	
Analyst:	РЈВ	Date Prep:	10.14.16 18.00	Basis:	Wet Weight
Seq Number:	3002116				

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00150		mg/kg	10.14.16 20.44	U	1
Toluene	108-88-3	ND	0.00200		mg/kg	10.14.16 20.44	U	1
Ethylbenzene	100-41-4	ND	0.00200		mg/kg	10.14.16 20.44	U	1
m,p-Xylenes	179601-23-1	ND	0.00200		mg/kg	10.14.16 20.44	U	1
o-Xylene	95-47-6	ND	0.00300		mg/kg	10.14.16 20.44	U	1
Total Xylenes	1330-20-7	ND	0.00200		mg/kg	10.14.16 20.44	U	1
Total BTEX		ND	0.00150		mg/kg	10.14.16 20.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	80-120	10.14.16 20.44		
1,4-Difluorobenzene		540-36-3	99	%	80-120	10.14.16 20.44		



LABORATORIES

Flagging Criteria



Page 46 of 59

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220 (214) 902 0300 (214) 35	1-9139
5332 Blackberry Drive, San Antonio TX 78238 (210) 509-3334 (210) 50)9-3335
1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 56	53-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282 (602) 437-0330	



QC Summary 538742



GHD-Albuquerque, NM

Analytical Method:							Prep Method: TX1005P						
Seq Number:	3002122				Matrix:	Solid				Date Pr	ep: 10.1	4.16	
MB Sample Id:	715008-1-	BLK		LCS Sar	nple Id:	715008-1	-BKS		LCSI	D Sample	e Id: 7150	008-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range H	ydrocarbons	<15.0	1000	999	100	968	97	70-135	3	35	mg/kg	10.14.16 19:53	
C10-C28 Diesel Range Hye	drocarbons	<15.0	1000	1070	107	1050	105	70-135	2	35	mg/kg	10.14.16 19:53	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		113		1	29		123		70	-135	%	10.14.16 19:53	
o-Terphenyl		120		1	29		129		70	-135	%	10.14.16 19:53	

Analytical Method:TPH by SW 8015BSeq Number:3002122Parent Sample Id:538536-001				Matrix: Soil MS Sample Id: 538536-001 S						Prep Method: TX1005P Date Prep: 10.14.16 MSD Sample Id: 538536-001 SD				
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
C6-C10 Gasoline Range Hy	drocarbons	16.6	998	961	95	969	96	70-135	1	35	mg/kg	10.14.16 21:09		
C10-C28 Diesel Range Hyd	lrocarbons	30.0	998	1000	97	979	95	70-135	2	35	mg/kg	10.14.16 21:09		
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date		
1-Chlorooctane				1	27		128		70	-135	%	10.14.16 21:09		
o-Terphenyl				1	24		124		70	-135	%	10.14.16 21:09		

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3002116 715021-1-BLK	1B	Matrix: Solid LCS Sample Id: 715021-1-BKS					Prep Method: SW5030B Date Prep: 10.14.16 LCSD Sample Id: 715021-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00150	0.100	0.0896	90	0.0897	90	70-130	0	35	mg/kg	10.14.16 18:05	
Toluene	< 0.00200	0.100	0.0922	92	0.0925	93	70-130	0	35	mg/kg	10.14.16 18:05	
Ethylbenzene	< 0.00200	0.100	0.0960	96	0.0977	98	71-129	2	35	mg/kg	10.14.16 18:05	
m,p-Xylenes	< 0.00200	0.200	0.197	99	0.200	100	70-135	2	35	mg/kg	10.14.16 18:05	
o-Xylene	< 0.00300	0.100	0.0964	96	0.0983	98	71-133	2	35	mg/kg	10.14.16 18:05	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	97		Ģ	99		100		80)-120	%	10.14.16 18:05	
4-Bromofluorobenzene	97		1	02		105		80)-120	%	10.14.16 18:05	





QC Summary 538742



GHD-Albuquerque, NM

Enterprise South Eddy

Analytical Mathady	DTEV by EDA 8021D	
Analytical Method:	BTEX by EPA 8021B	

Analytical Method: Seq Number: Parent Sample Id:					Matrix: Soil MS Sample Id: 538742-001 S					Prep Method: SW5030B Date Prep: 10.14.16 MSD Sample Id: 538742-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Benzene	< 0.00149	0.0994	0.0822	83	0.0807	81	70-130	2	35	mg/kg	10.14.16 18:36			
Toluene	< 0.00199	0.0994	0.0852	86	0.0830	84	70-130	3	35	mg/kg	10.14.16 18:36			
Ethylbenzene	< 0.00199	0.0994	0.0885	89	0.0857	86	71-129	3	35	mg/kg	10.14.16 18:36			
m,p-Xylenes	< 0.00199	0.199	0.182	91	0.175	88	70-135	4	35	mg/kg	10.14.16 18:36			
o-Xylene	< 0.00298	0.0994	0.0911	92	0.0867	87	71-133	5	35	mg/kg	10.14.16 18:36			
Surrogate				1S Rec	MS Flag	MSD %Ree		_	imits	Units	Analysis Date			
1,4-Difluorobenzene			1	01		101		80)-120	%	10.14.16 18:36			
4-Bromofluorobenzene			1	06		103		80)-120	%	10.14.16 18:36			

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Released to Imaging: 12/5/2024 9:52:04 AM

Page 13 of 15

Final 1.000

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: GHD-Albuquerque, NM Date/ Time Received: 10/14/2016 12:01:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Comments

Work Order #: 538742

Temperature Measuring device used : R8

Sample Receipt Checklist	
#1 *Temperature of cooler(s)?	6.6
#2 *Shipping container in good condition?	N/A
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	Yes
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer Checklist reviewed by: Kelsey Brooks

Date: 10/14/2016

Date: 10/14/2016

Appendix C Waste Manifests

11135027 Assessment Summary Report

Released to Imaging: 12/5/2024 9:52:04 AM

	1300 WEST MAIN S		LAND, LLC HOMA CITY, OK 73106 •	PHONE	(405) 236-4	257		
NO	N-HAZARDOUS WASTE MANII	FEST NO	111304	1. PA	GE_OF	2. TRAII	LER NO.	83
G	3. COMPANY NAME Enterprise Field Services LLC, PHONE NO.	4. ADDRESS P.O. Box CITY	1508 STATE	u estare niv occ	-	PICK-UP DATE	I Chants	
E	(575) 885-7236	Carlsbad	NM	88	220			
	7. NAME OR DESCRIPTION OF WASTE SHIPP	ED:	and the second second	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II
N	^a . Non-Regulated, Non Hazardous Was	te		1	CM	25		1. A. A. A.
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	14. IN CA	ASE OF EMI PHONE NO	ERGENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCV NO
T	Kin Staughter	575-887-4	048			24-11001	LINEROL	ne i no.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	nd labeled, and an	e in all respects in proper co	ndition fo	or transport	by highway acc	ording to ap	oplicable
R	PRINTED/TYPED NAME		SIGNATURE	1				DATE
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	1300 WEST MAIN ST		ND, LLC IA CITY, OK 73106 •	PHONE (40)5) 236-42:	57		
ION	N-HAZARDOUS WASTE MANIF	TEST NO	115783	1. PAG	EOF	_ 2. TRAI	LER NO.	83
G	3. COMPANY NAME	4. ADDRESS	18		5. PI	CK-UP DATE	3	
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E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	-D-	una estate e de	8. CONTA	AINERS	9. TOTAL	10. UNIT	11. TEXA
N	a.	te	- and -	No.	Туре	QUANTITY	Wt/Vol.	WASTE II
	b.	a had to the state				~		
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R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	and the second day	and the second second	l consider la		13. WASTE P	PROFILE N	0.
A	SOUTH EDDY CYRO PLANT							
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0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in	all respects in proper co	ndition for t	transport by	y highway acc	cording to ap	oplicable
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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:		OGRID:
1	Enterprise Field Services, LLC	241602
	PO Box 4324	Action Number:
	Houston, TX 77210	408935
		Action Type:
		[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
amaxwell	Historical document upload. C141 has the incorrect RP number listed.	12/5/2024

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