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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action					
	OPERATOR		al Report	☐ Final Repor	
Name of Company: XTO Energy OGRID:4380	Contact: Kyle Littrell				
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-73				
Facility Name: Sizzler Federal #2H	Facility Type: Exploration	and Production			
Surface Owner: State Mineral Owner	er: State	API No	: 30-015-4	4280	
	ON OF RELEASE				
Unit Letter Section Township Range Feet from the Nor 25S 29E 180 Sou	rth/South Line Feet from the ath 1650	East/West Line East	County Eddy		
Latitude 32.1525571	Longitude104.020787	NAD83			
	RE OF RELEASE				
Type of Release	Volume of Release	Volume R			
Fresh water and chemical (scale inhibitor, PAA, biocide) Source of Release	450bbl water, 3 gallons cher		ter, 3 gallons		
Frac tank	Date and Hour of Occurrence 7/25/2018, AM		Hour of Disco , 5:00 AM	overy	
Was Immediate Notice Given?	If YES, To Whom?				
✓ Yes ☐ No ☐ Not Require	ed Mike Bratcher (NMOCD), R	yan Mann (SLO),	Shelly Tucke	r (BLM)	
By Whom? Amy Ruth	Date and Hour: 7/25/2018,				
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting th	ne Watercourse.			
	N/A				
If a Watercourse was Impacted, Describe Fully.* N/A					
N/A					
Describe Cause of Problem and Remedial Action Taken.*					
Frac tank overflowed during filling. Valves were closed and flow to tan	nk was stopped.				
Describe Area Affected and Cleanup Action Taken.*					
Fluid was released into lined containment. Less than one barrel escaped from containment. The breach in the liner was patched and containmen	d through a hole in the liner. Vacually was also and An any iron montal of	um truck was dispa	itched and re	covered all fluid	
remediation efforts.	it was cleaned. An environmental of	contractor has been	retained to a	issist with	
I hereby certify that the information given above is true and complete to	the hest of my knowledge and un	deretand that nurse	uent to NIMO	CD mules and	
regulations all operators are required to report and/or file certain release	notifications and perform correction	ive actions for relea	ases which m	av endanger	
public health or the environment. The acceptance of a C-141 report by	the NMOCD marked as "Final Ren	port" does not relie	eve the onerat	or of liability	
should their operations have failed to adequately investigate and remedi	iate contamination that pose a threa	at to ground water,	surface wate	r, human health	
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	t does not relieve the operator of re	esponsibility for co	mpliance wit	h any other	
	OIL CONS	ERVATION I	DIVISION	I	
	<u>OIL CONS</u>	LIVATION	DI VIBIOI	<u> </u>	
Signature: Level (rel)					
Printed Name: Amy C Ruth	Approved by Environmental Spe	^{ecialist:} Maria P	ruett		
	00/44/40				
Title: Environmental Coordinator	Approval Date: 08/11/18	Expiration D	oate: N/A		
E-mail Address: Amy_Ruth@xtoenergy.com	Conditions of Approval:		Associated [-,	
Deta: Day 9/10/2019			Attached [
Date: Rev 8/10/2018 Phone: 575-689-3380 Attach Additional Sheets If Necessary			2RP-49	913	

Attach Additional Sheets If Necessary

A#:pMAP1822337557 I#: nMAP1822337753

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party: XTO Energy, Inc

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NMAP1822337753
District RP	2RP-4913
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 5380

Contact Name: Garrett Green Contact			ntact Te	Telephone: (575)-200-0729				
Contact email: garrett.green@exxonmobil.com			Incident #: 2RP-4913					
Contact mailing address: 3104 E. Greene Street, Carlsbad, New Mexico, 88220								
			Location	of Relea	ase So	ource		
Latitude N 32	2.152557		(NAD 83 in dec	Long cimal degrees	gitude <u>V</u> to 5 decim	W -104.020787 mal places)		
Site Name: Si	izzler Federa	al #2H		Site	e Type:	Production Well Facility		
Date Release	Discovered:	07/25/2018		AP	I# (if appi	plicable): 30-015-44280		
Unit Letter	Section	Township	Range		Coun	nty		
О	6	25S	29E		Edd	ly		
Crude Oil		l(s) Released (Select all Volume Released				Release c justification for the volumes provided below) Volume Recovered (bbls):		
Produced	Water	Volume Release	d (bbls):			Volume Recovered (bbls):		
		Is the concentrate produced water	ion of dissolved ci	hloride in tl	he	☐ Yes ☐ No		
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)		
Natural G	las	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
☐ Other (describe) Volume/Weight Released (provide units): 45 of fresh water with chemical additives				Volume/Weight Recovered (provide units): 449 bbls of fresh water with chemical additives				
Cause of Rele Frac tank ove		ing filling. Valves	were closed and f	flow to tank	c was sto	opped.		

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e of New Mexico
Incident ID
In

Application ID

Was this a major release as defined by	If YES, for what reason(s) does the response Release volume was greater than 25 bbls.	sible party consider this a major release?
19.15.29.7(A) NMAC?	refease volume was greater than 25 501s.	
⊠ Yes □ No		
If VES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	ratcher (NMOCD), Ryan Mann (SLO), Shel	
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	eve been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described N/A	d above have <u>not</u> been undertaken, explain v	vhy:
14/11		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the C	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Garr	rett Green	Title: _SSHE Coordinator
Signature:	the Sur	Date:6/15/2023
email: <u>garrett.green@exx</u>		Telephone: <u>575-200-0729</u>
OCD Only		
Received by:		Date:

	Page 4 of 7	4
Incident ID	NMAP1822337753	
District RP	2RP-4913	
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.					
Data table of soil contaminant concentration data						
Depth to water determination						
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs						
☐ Borning of excavation logs Photographs including date and GIS information						
☐ Topographic/Aerial maps						
Laboratory data including chain of custody						

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Incident ID	NMAP1822337753	
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Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Garrett Green	Title:SSHE Coordinator				
Signature: Sath Surv	Date: <u>6/15/2023</u>				
email:garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>				
OCD Only					
Received by: Jocelyn Harimon	Date:06/16/2023				

State of New Mexico

Incident ID NMAP1822337753

Incident ID NMAP1822337753
District RP 2RP-4913
Facility ID Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items	must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11 N	MAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	ne liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Dis	strict office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to and regulations all operators are required to report and/or file certain relemay endanger public health or the environment. The acceptance of a C-should their operations have failed to adequately investigate and remediation human health or the environment. In addition, OCD acceptance of a C-compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditionaccordance with 19.15.29.13 NMAC including notification to the OCD Printed Name:	ease notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability at contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for s. The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in when reclamation and re-vegetation are complete. Title:SSHE Coordinator Date:6/15/2023
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by:	Date:06/16/2023
Closure approval by the OCD does not relieve the responsible party of li remediate contamination that poses a threat to groundwater, surface wate party of compliance with any other federal, state, or local laws and/or re	r, human health, or the environment nor does not relieve the responsible
Closure Approved by: Buttan Hall	Date: _7/6/2023
Printed Name: Brittany Hall	Title: Environmental Specialist



June 15, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Addendum

Sizzler Federal #2H

Incident Number NMAP1822337753

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* submitted on October 4, 2019. This addendum provides an update to the soil sampling activities completed at the Sizzler Federal #2H (Site) in response to the denial of the October 4, 2019 *Closure Request* by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD indicated that the soil sampling activities were not sufficient. Based on the additional soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting closure for Incident Number NMAP1822337753.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 6, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.152557°, -104.020787°) and is associated with oil and gas exploration and production operations on State land managed by the New Mexico State Land Office (SLO).

On July 25, 2018, hydraulic fracturing tanks overflowed during filling. Approximately 450 barrels (bbls) of fresh water with 3 gallons of chemical additives were released within the impermeable lined containment around the tanks. Valves were closed to stop flow to the tanks. A vacuum truck was dispatched to the Site to recover the free-standing fluid; approximately 449 bbls of fluid were recovered. A hole in the liner was identified and approximately 1 bbl of fresh water escaped the liner onto the surface of the caliche well pad. The liner was repaired, and the containment was cleaned. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on August 10, 2018. The release was assigned Remediation Permit (RP) Number 2RP-4913 and Incident Number NMAP1822337753.

BACKGROUND

The original *Closure Request* detailed site characterization according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

XTO Energy, Inc. Closure Request Addendum Sizzler Federal #2H

Based on the results of the Site Characterization, the following Table I Closure Criteria (Closure Criteria) were applied:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

During January 2019, Site assessment activities were conducted to assess for the presence or absence of impacted soil resulting from the July 25, 2018, release of fresh water with chemical additives at the Site. Six potholes (PH01 through PH06) were advanced around the hydraulic fracturing tank containment to assess for potential soil impacts. Delineation soil samples were collected from each pothole from depths ranging from 0.5 feet to 2 feet below ground surface (bgs). Laboratory analytical results for the delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additional details regarding the delineation soil sampling activities can be referenced in the original October 4, 2019 *Closure Request*. Laboratory analytical results from the soil sampling activities are summarized in Table I and the soil sample locations are depicted on Figure 2. Based on the laboratory analytical results, no further remediation was warranted and a *Closure Request* was submitted to the NMOCD on October 4, 2019.

On March 16, 2023, NMOCD denied the *Closure Request* for Incident Number NMAP1822337753 for the following reasons:

- No samples were collected from beneath the containment once it was removed.
- The chemical additive needs to be identified and sampled in accordance with 19.15.29.11 A. (5)(e).

ADDITIONAL SOIL SAMPLING ACTIVITIES

Ensolum personnel were at the Site on May 19, 2023, to complete additional soil sampling activities. One pothole (PH07) was advanced via backhoe to a depth of 4 feet bgs at the location of the former hydraulic fracturing tank containment to confirm the absence of impacted soil resulting from the July 25, 2018, fresh water release. Soil from the pothole was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Discrete delineation soil samples PH07 and PH07A were collected from the pothole at depths of 1-foot and 4 feet bgs. The pothole location is presented on Figure 2.

The delineation soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation was completed during the Site visit. A photographic log is included in Appendix A.

Laboratory analytical results for soil samples PH07 and PH07A indicated that all COC concentrations were compliant with the Site Closure Criteria. The soil sample analytical results are summarized on Table I and the laboratory analytical report is included as Appendix B.



XTO Energy, Inc. Closure Request Addendum Sizzler Federal #2H

CHEMICAL ADDITIVE REVIEW

The chemical additives listed on the Form C-141 included scale inhibitor, poly acrylic acid (PAA), and biocide. Chemicals listed in these additives were not identified on Table 1 of 40 C.F.R. 261.24(b) or the New Mexico environment department's Risk Assessment Guidance for Site Investigations and Remediation Volumes I and II. The Safety Data Sheets for the chemical additives are provided in Appendix C.

The 450 bbls of fresh water released contained only three gallons of chemical additives (0.016% of the solution). The majority of the released fluids were contained within the lined containment and all but one barrel of fresh water was recovered during initial response activities. The fresh water release with limited chemical additives occurred almost 5 years ago; residual impact from the chemical additives is very unlikely. As such, XTO does not believe additional laboratory analysis for the chemical additives is warranted.

CLOSURE REQUEST

Soil sampling activities were completed at the Site to assess for the presence or absence of impacts to soil resulting from the July 25, 2018, fresh water release within lined containment. Based on laboratory analytical results compliant with the Site Closure Criteria in all delineation soil samples, no further remediation was required. Based on visual observations, field screening activities, and laboratory analytical results, no impacted soil was identified as a result of the release. XTO respectfully requests closure for Incident Number NMAP1822337753.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,

Ensolum, LLC

Aimee Cole

Senior Managing Scientist

Ashley Ager, P.G. Program Director

Ashley L. Ager

cc: Garrett Green, XTO

Shelby Pennington, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Photographic Log

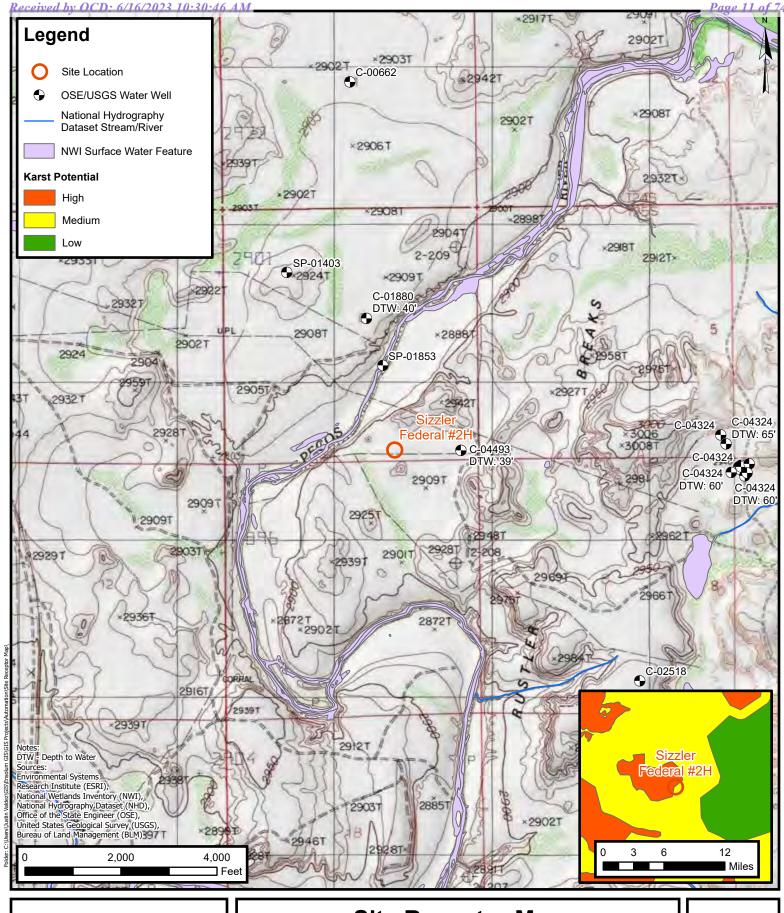
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation (2023)

Appendix C Safety Data Sheets
Appendix D NMOCD Notifications





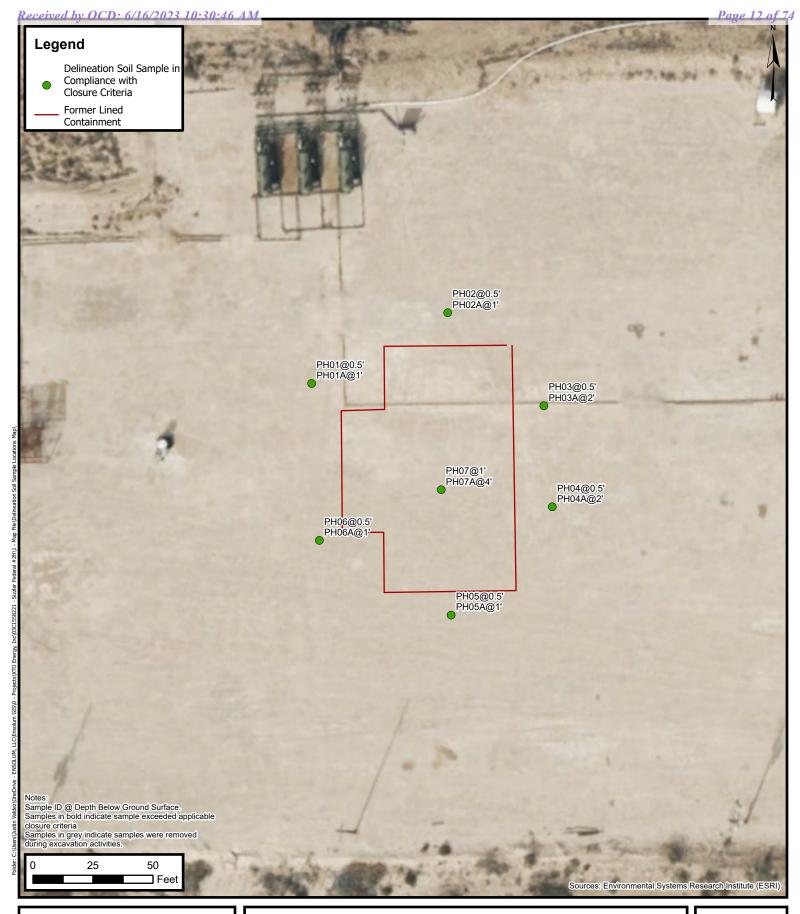
FIGURES





Site Receptor Map

XTO Energy, Inc Sizzler Federal #2H Incident Number: NMAP1822337753 Unit O Sec 6 Township 25 South Range 29 East Eddy County, New Mexico FIGURE 1





Delineation Soil Sample Locations

XTO Energy, Inc Sizzler Federal #2H Incident Number: NMAP1822337753 Unit O Sec 6 Township 25 South Range 29 East Eddy County, New Mexico FIGURE 2



TABLES

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TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Sizzler Federal #2H XTO Energy, Inc. **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	50	100	600
				Deli	neation Soil Sa	mples				
PH01	01/02/2019	0.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	59.8
PH01A	01/02/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	59.4
PH02	01/02/2019	0.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	392
PH02A	01/02/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	355
PH03	01/02/2019	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	286
PH03A	01/02/2019	2	<0.00200	<0.00200	15.3	<15.0	<15.0	15.3	15.3	505
PH04	01/02/2019	0.5	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	350
PH04A	01/02/2019	2	<0.00202	<0.00202	19.9	<15.0	<15.0	19.9	19.9	67.8
PH05	01/02/2019	0.5	<0.00199	<0.00199	16.3	<15.0	<15.0	16.3	16.3	39.1
PH05A	01/02/2019	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	98.7
PH06	01/02/2019	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	399
PH06A	01/02/2019	1	<0.00201	<0.00201	26.0	<15.0	<15.0	26.0	26.0	348
PH07	05/19/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	216
PH07A	05/19/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	50.3

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

requirement where applicable.



APPENDIX A

Photographic Log

Released to Imaging: 7/6/2023 8:39:08 AM



Photographic Log XTO Energy, Inc Sizzler Federal #2H NMAP1822337753





Photograph 1
Description: Pad layout
View: Southeast

Date: 05/12/2023

Photograph 2 Date: 05/19/2023 Description: Marked electrical line through one call area

View: Southwest





Date: 05/19/2023

Photograph 3
Description: Pothole PH07

View: Southeast

Date: 05/19/2023

Photograph 4

Description: PH07 post-backfill

View: Northeast



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/24/2023 12:51:27 PM

JOB DESCRIPTION

Sizzler 2H SDG NUMBER 32.152557,-109.020787

JOB NUMBER

890-4693-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 5/24/2023 12:51:27 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Companies

Page 2 of 21 5/24/2023

Client: Ensolum Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Laboratory Job ID: 890-4693-1

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Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Job ID: 890-4693-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4693-1

Receipt

The samples were received on 5/19/2023 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH07 (890-4693-1) and PH07A (890-4693-2).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53847 and analytical batch 880-53828 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-4693-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Client Sample ID: PH07

Date Collected: 05/19/23 09:45 Date Received: 05/19/23 11:40

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/23/23 09:51	05/23/23 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/23/23 09:51	05/23/23 20:58	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/23/23 09:51	05/23/23 20:58	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/24/23 11:22	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/23/23 10:13	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/22/23 09:25	05/22/23 14:02	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/22/23 09:25	05/22/23 14:02	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/22/23 09:25	05/22/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/22/23 09:25	05/22/23 14:02	1
o-Terphenyl	124		70 - 130			05/22/23 09:25	05/22/23 14:02	1
-								
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solub	le					

Client Sample ID: PH07A

Date Collected: 05/19/23 10:00 Date Received: 05/19/23 11:40

Sample Depth: 4'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/23/23 09:51	05/23/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/23/23 09:51	05/23/23 21:18	1

24.9

216

mg/Kg

Eurofins Carlsbad

05/23/23 15:28

Lab Sample ID: 890-4693-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4693-2

05/23/23 15:44

Client Sample Results

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Client Sample ID: PH07A

Date Collected: 05/19/23 10:00 Date Received: 05/19/23 11:40

Sample Depth: 4'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			05/23/23 09:51	05/23/23 21:18	7
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/24/23 11:22	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/23/23 10:13	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/22/23 09:25	05/22/23 14:24	1
GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/22/23 09:25	05/22/23 14:24	1
C10-C28)	40.0		40.0	" -		05/00/00 00 05	05/00/00 44.04	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/22/23 09:25	05/22/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/22/23 09:25	05/22/23 14:24	
o-Terphenyl	123		70 - 130			05/22/23 09:25	05/22/23 14:24	1

5.01

mg/Kg

50.3

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surroga
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4690-A-1-C MS	Matrix Spike	93	95	
890-4690-A-1-D MSD	Matrix Spike Duplicate	91	105	
890-4693-1	PH07	102	95	
890-4693-2	PH07A	101	100	
LCS 880-53960/1-A	Lab Control Sample	83	123	
LCSD 880-53960/2-A	Lab Control Sample Dup	97	112	
MB 880-53960/5-A	Method Blank	85	100	
Surrogate Legend				
BFB = 4-Bromofluoroben:	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

=						
		1CO1	OTPH1			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-4682-A-1-D MS	Matrix Spike	121	127			
890-4682-A-1-E MSD	Matrix Spike Duplicate	105	115			
890-4693-1	PH07	101	124			
890-4693-2	PH07A	100	123			
LCS 880-53847/2-A	Lab Control Sample	96	106			
LCSD 880-53847/3-A	Lab Control Sample Dup	111	124			
MB 880-53847/1-A	Method Blank	179 S1+	218 S1+			

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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3

Λ

5

9

12

Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53960/5-A

Lab Sample ID: LCS 880-53960/1-A

Matrix: Solid

Analysis Batch: 53967

Matrix: Solid Analysis Batch: 53967 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53960

	IVID IV	/ID						
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J _	0.00200	mg/Kg		05/23/23 09:51	05/23/23 13:32	1
Toluene	<0.00200 U	J	0.00200	mg/Kg		05/23/23 09:51	05/23/23 13:32	1
Ethylbenzene	<0.00200 U	J	0.00200	mg/Kg		05/23/23 09:51	05/23/23 13:32	1
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		05/23/23 09:51	05/23/23 13:32	1
o-Xylene	<0.00200 U	J	0.00200	mg/Kg		05/23/23 09:51	05/23/23 13:32	1
Xylenes, Total	<0.00400 U	J	0.00400	mg/Kg		05/23/23 09:51	05/23/23 13:32	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	05/23	3/23 09:51	05/23/23 13:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/23	3/23 09:51	05/23/23 13:32	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53960

Prep Type: Total/NA

Prep Batch: 53960

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1231 mg/Kg 123 70 - 130 Toluene 0.100 0.09465 mg/Kg 95 70 - 130 0.100 92 Ethylbenzene 0.09213 mg/Kg 70 - 130 0.200 0.1784 89 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.07972 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Client Sample ID: Lab Control Sample Dup

97

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 53967

Lab Sample ID: LCSD 880-53960/2-A

RPD LCSD LCSD Spike %Rec Added Result Qualifier Unit %Rec Limits RPD Limit 0.1212 0.100 mg/Kg 121 70 - 130 35 0.100 0.1039 mg/Kg 104 70 - 130 9 35 0.100 0.1028 mg/Kg 103 70 - 130 11 35 0.200 0.2107 mg/Kg 105 70 - 130 17 35

mg/Kg

0.09677

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-4690-A-1-C MS

Matrix: Solid

Analysis Batch: 53967

Client Sample ID: Matrix Spike Prep Type: Total/NA

70 - 130

Prep Batch: 53960

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.1221		mg/Kg		121	70 - 130	
Toluene	<0.00200	U	0.101	0.1138		mg/Kg		113	70 - 130	

0.100

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QC Sample Results

Job ID: 890-4693-1 Client: Ensolum Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-4690-A-1-C MS

Lab Sample ID: 890-4690-A-1-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 53967

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 53960

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.101	0.1113		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.202	0.2251		mg/Kg		112	70 - 130	
o-Xylene	<0.00200	U	0.101	0.1004		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53960

Analysis Batch: 53967 Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier RPD Limit Analyte babbA Unit %Rec Limits Benzene <0.00200 U 0.0990 0.1258 mg/Kg 127 70 - 130 3 35 Toluene <0.00200 U 0.0990 0.1112 mg/Kg 112 70 - 130 2 35 Ethylbenzene <0.00200 U 0.0990 0.1032 104 70 - 130 8 35 mg/Kg 0.198 35 m-Xylene & p-Xylene <0.00399 U 0.2053 mg/Kg 104 70 - 130 9 <0.00200 U 0.0990 0.09190 70 - 130 o-Xylene mg/Kg 93

MSD MSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-53847/1-A

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53847

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 05/22/23 08:00 05/22/23 08:26 <50.0 U mg/Kg (GRO)-C6-C10 05/22/23 08:00 05/22/23 08:26 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 05/22/23 08:00 05/22/23 08:26 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130	05/22/23 08:00	05/22/23 08:26	1
o-Terphenyl	218	S1+	70 - 130	05/22/23 08:00	05/22/23 08:26	1

Lab Sample ID: LCS 880-53847/2-A

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53847

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	899.0		mg/Kg		90	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	884.1		mg/Kg		88	70 - 130
C10-C28)							

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Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-53847/2-A

Matrix: Solid

Analysis Batch: 53828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53847

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 106 70 - 130

Lab Sample ID: LCSD 880-53847/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53828

Prep Type: Total/NA

Prep Batch: 53847

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 70 - 130 Gasoline Range Organics 1000 999.0 100 11 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1018 mg/Kg 102 70 - 13020 14 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-4682-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53828

Prep Type: Total/NA

Prep Batch: 53847

	Sample	Sample	Spike	IVIO	IVIO				70 KeC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	998	1131		mg/Kg		108	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	104		998	1181		mg/Kg		108	70 - 130	
C10 C28)										

C10-C28)

MS MS

Sample Sample

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	121	70 - 130
o-Terphenyl	127	70 - 130

Lab Sample ID: 890-4682-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 53828

Prep Type: Total/NA Prep Batch: 53847

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	999	940.5		mg/Kg		89	70 - 130	18	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	104		999	1032		mg/Kg		93	70 - 130	13	20	
C10 C20\												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	115		70 - 130

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QC Sample Results

Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53878/1-A

Matrix: Solid

Analysis Batch: 53996

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв Dil Fac Result Qualifier RL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 05/23/23 13:34

Lab Sample ID: LCS 880-53878/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53996

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.1 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-53878/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53996

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 248.9 mg/Kg 100 90 - 110

Lab Sample ID: 890-4690-A-2-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53996

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 101 249 326.4 90 - 110 mg/Kg

Lab Sample ID: 890-4690-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53996

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 101 325.7 mg/Kg 90 90 - 110 20

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

GC VOA

Prep Batch: 53960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	5035	
890-4693-2	PH07A	Total/NA	Solid	5035	
MB 880-53960/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53960/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53960/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4690-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4690-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	8021B	53960
890-4693-2	PH07A	Total/NA	Solid	8021B	53960
MB 880-53960/5-A	Method Blank	Total/NA	Solid	8021B	53960
LCS 880-53960/1-A	Lab Control Sample	Total/NA	Solid	8021B	53960
LCSD 880-53960/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53960
890-4690-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	53960
890-4690-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53960

Analysis Batch: 54069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	Total BTEX	
890-4693-2	PH07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	8015B NM	53847
890-4693-2	PH07A	Total/NA	Solid	8015B NM	53847
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015B NM	53847
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53847
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53847
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	53847
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53847

Prep Batch: 53847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	8015NM Prep	
890-4693-2	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Total/NA	Solid	8015 NM	
890-4693-2	PH07A	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

HPLC/IC

Leach Batch: 53878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Soluble	Solid	DI Leach	
890-4693-2	PH07A	Soluble	Solid	DI Leach	
MB 880-53878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4690-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4690-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4693-1	PH07	Soluble	Solid	300.0	53878
890-4693-2	PH07A	Soluble	Solid	300.0	53878
MB 880-53878/1-A	Method Blank	Soluble	Solid	300.0	53878
LCS 880-53878/2-A	Lab Control Sample	Soluble	Solid	300.0	53878
LCSD 880-53878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53878
890-4690-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	53878
890-4690-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53878

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Client Sample ID: PH07

Lab Sample ID: 890-4693-1

Matrix: Solid

Date Collected: 05/19/23 09:45 Date Received: 05/19/23 11:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53960	05/23/23 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53967	05/23/23 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54069	05/24/23 11:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			53975	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53828	05/22/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53878	05/22/23 12:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53996	05/23/23 15:28	SMC	EET MID

Client Sample ID: PH07A Lab Sample ID: 890-4693-2

Date Collected: 05/19/23 10:00 Matrix: Solid
Date Received: 05/19/23 11:40

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 53960 05/23/23 09:51 MNR EET MID 8021B Total/NA 5 mL 05/23/23 21:18 **EET MID** Analysis 1 5 mL 53967 MNR Total/NA Total BTEX 54069 05/24/23 11:22 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 53975 05/23/23 10:13 SM **EET MID** Total/NA 53847 Prep 8015NM Prep 10.03 g 10 mL 05/22/23 09:25 AM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 53828 05/22/23 14:24 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 53878 05/22/23 12:16 SMC **EET MID** Soluble Analysis 300.0 50 mL 50 mL 53996 05/23/23 15:44 SMC **EET MID**

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4693-1

 Project/Site: Sizzler 2H
 SDG: 32.152557,-109.020787

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, gg,	ay molado analytoo for w
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	y molade analytee for th
0 ,		Matrix Solid	, , ,	

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Method Summary

Client: Ensolum Job ID: 890-4693-1 Project/Site: Sizzler 2H SDG: 32.152557,-109.020787

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Sizzler 2H

Job ID: 890-4693-1

SDG: 32.152557,-109.020787

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4693-1	PH07	Solid	05/19/23 09:45	05/19/23 11:40	1'
890-4693-2	PH07A	Solid	05/19/23 10:00	05/19/23 11:40	4'

3

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7

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10

40

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Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

mober toleroo ton to

API

50.015.44280

Chain of Custody

None: NO
ANALYSIS REQUEST
Deliverables: EDD
Reporting: Level III Level III PST/UST TRRP Level IV
State of Project:
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund [
T
1

Project Manager:

Company Name:

City, State ZIP:

Address:

Phone:

SAMPLE RECEIPT

Temp Blank: Yes No

Yes No

Wet Ice:

0

Parameters

Sample Custody Seals: Cooler Custody Seals: samples Received Intact:

Yes No

Temperature Reading: Correction Factor: Thermometer ID:

> 6.0 2700

Yes No

Sample Identification

Matrix

Sampled

Date

Time

Depth

Comp Grab/

Cont # of

BTEX

TPH

, 2)

Chlondes

890-4693 Chain of Custody

5/19/23

0945 Sampled

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1000

PH5 7A PHOT Sampler's Name:

Mercdith Robert

TAT starts the day received by the lab, if received by 4:30pm

HCL: HC

Cool: Cool

MeOH: Me NH: ONH NaOH: Na

32.152557-104. 020181 Due Date:

roject Location:

Project Number:

Project Name:

Circle Method(s) and Metal(s) to be analyzed		8RCRA Sb As Ba Be Cd Ci	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Hg: 1631 / 245.1 / 7470 / 7471	7471
Notice: Signature of this document and relinquishment	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions to the control of the control o	ompany to Eurofins Xenco, Its affiliates and subsess or expenses incurred by the client if subsess or expenses incurred by the client in the client incurred by	ubcontractors. It assigns standard terms and condition uch losses are due to circumstances beyond the contro	18	
of Eurofins Xenco. A minimum charge of \$85.00 will be	of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	submitted to Eurofins Xenco, but not analyz	zed. These terms will be enforced unless previously neg	otlated.	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO , NaHSO 4: NABIS H₃PO₄: HP H2SO 4: H2

Sample Comments

nudent #

NMAP1822357753

Ost Center 168613100

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4693-1

SDG Number: 32.152557,-109.020787

Login Number: 4693 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4693-1

SDG Number: 32.152557,-109.020787

Login Number: 4693 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/22/23 08:42 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").



APPENDIX C Safety Data Sheets SDS no. L065 Version 3

Revision date 11/Dec/2014 Supersedes date 27/Feb/2009



Safety Data Sheet Scale Inhibitor L065

1. Identification of the substance/preparation and of the Company/undertaking

1.1 Product identifier

Product name Scale Inhibitor L065

Product code L065

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Scale Inhibitor. Used as a fracturing additive in oilfield applications

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier

Schlumberger Oilfield Australia Pty Ltd

ABN: 74 002 459 225 ACN: 002 459 225

256 St. Georges Terrace, Perth WA 6000

+47 5157 7424 SDS@slb.com

1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 595 3518

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to (EC) No. 1272/2008

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards Not classified

2.2 Label elements

Signal word

None



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Classification according to EU Directives 67/548/EEC or 1999/45/EC

Indication of danger

Not classified

Contains

Ethylene glycol

CALCIUM CHLORIDE

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

2.3 Other data

Not classified as PBT/vPvB by current EU criteria

Australian statement of hazardous/dangerous nature

Classified as Non-Hazardous according to the criteria of NOHSC. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Ethylene glycol	203-473-3	107-21-1	10-30	Xn; R48/22	Acute Tox. 4 (H302) STOT RE. 2(H373)	No data available
CALCIUM CHLORIDE	233-140-8	10043-52-4	< 3	Xi; R36	Eye Irrit. 2 (H319)	No data available

Comments

The product contains other ingredients which do not contribute to the overall classification.

4. First aid measures

4.1 First-Aid Measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth

to an unconscious person. Get medical attention if symptoms occur.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

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Eye contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical

attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

General advice The severity of the symptoms described will vary dependant of the concentration and the

length of exposure. If adverse symptoms develop, the casualty should be transferred to

hospital as soon as possible.

Main symptoms

Inhalation Please see Section 11. Toxicological Information for further information.

Ingestion Please see Section 11. Toxicological Information for further information.

Skin contact Please see Section 11. Toxicological Information for further information.

Eye contact Please see Section 11. Toxicological Information for further information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate for surrounding material.

Extinguishing media which shall not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

None known.

Hazardous combustion products

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Special Fire-Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. See also section 8.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.



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Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After cleaning, flush away traces with water.

6.4 Reference to other sections

See section 13 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use.

Hygiene measures

Use good work and personal hygiene practices to avoid exposure. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation. Keep airborne concentrations below exposure limits.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid heat, flames

and other sources of ignition.

Storage class Chemical storage.

7.3 Specific end uses

See Section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Component	EU OEL	Austria	Australia	Denmark

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Ethylene glycol	20 ppm TWA 52 mg/m³ TWA 40 ppm STEL 104 mg/m³ STEL Possibility of significant uptake through the skin	Not determined	skin notation 10 mg/m³ TWA (particulate); 20 ppm TWA (vapour); 52 mg/m³ TWA (vapour) 40 ppm STEL (vapour); 104 mg/m³ STEL (vapour)	10 ppm TWA 26 mg/m³ TWA 10 mg/m³ TWA Potential for cutaneous absorption
CALCIUM CHLORIDE	Not determined	Not determined	Not determined	Not determined
			T	T
Component	Finland	France	Germany	Hungary
Ethylene glycol	Not determined	20 ppm	10 ppm MAK	Not determined

Component	Finland	France	Germany	Hungary
Ethylene glycol	Not determined	20 ppm	10 ppm MAK	Not determined
		52 mg/m ³	26 mg/m³ MAK	
CALCIUM CHLORIDE	Not determined	Not determined	Not determined	Not determined

Component	New Zealand	ltaly	Netherlands	Norway
Ethylene glycol	50 ppm Ceiling mist and	Not determined	52 mg/m ³	10 mg/m ³ TWA dust
	vapour		10 mg/m ³	25 ppm Ceiling (vapor)
	127 mg/m ³ Ceiling mist			Skin
	and vapour			
CALCIUM CHLORIDE	Not Determined	Not determined	Not determined	Not determined

Component	Poland	Portugal	Romania	Russia
Ethylene glycol	50 mg/m³ STEL 15 mg/m³ TWA	Not determined	Not determined	10 mg/m³ STEL aerosol and vapor 5 mg/m³ TWA aerosol and vapor
CALCIUM CHLORIDE	Not determined	Not determined	Not determined	2 mg/m³ MAC Skin

Component	Spain	Switzerland	Turkey	UK
Ethylene glycol	40 ppm VLA-EC 104 mg/m³ VLA-EC Skin 20 ppm VLA-ED indicative limit value 52 mg/m³ VLA-ED indicative limit value	20 ppm STEL 52 mg/m³ STEL Skin 10 ppm MAK 26 mg/m³ MAK	40 ppm STEL 104 mg/m³ STEL Skin 20 ppm TWA 52 mg/m³ TWA	40 ppm STEL vapour 104 mg/m³ STEL vapour 30 mg/m³ STEL calculated particulate Skin 20 ppm TWA vapour 52 mg/m³ TWA vapour 10 mg/m³ TWA particulate
CALCIUM CHLORIDE	Not determined	Not determined	Not determined	Not determined

Notes

No biological limit allocated

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.



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Engineering measures to reduce exposure

Ensure adequate ventilation. Mechanical ventilation or local exhaust ventilation is required.

Personal protective equipment

goggles.

Hand protection Use protective gloves made of:, polyvinyl alcohol or nitrile-butyl rubber gloves, Be aware

that liquid may penetrate the gloves. Frequent change is advisable.

ventilation wear suitable respiratory equipment, When workers are facing concentrations above the exposure limit they must use appropriate certified respirators, Respirator with combination filter for vapour/particulate (EN 141), At work in confined or poorly ventilated

spaces, respiratory protection with air supply must be used.

Skin and body protection Wear suitable protective clothing, Eye wash and emergency shower must be available at

the work place.

Hygiene measures Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing

before re-use.







9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution

OdorMildColorPale yellowOdor thresholdNot applicable

<u>Property</u> <u>Values</u> <u>Remarks</u>

pH 7.8 - 8.8

pH @ dilution

Melting/freezing point -50
Boiling point/range 100 °C

Flash point > 100 °C PMCC

Evaporation rate (BuAc =1) No information available Flammability (solid, gas) Not Applicable

Flammability (solid, gas) Flammability Limits in Air

Iller or florer obility limit

Upper flammability limit
Lower flammability limit
Not applicable
Not applicable

Vapor pressure 7 kPa @ 20 °C

Vapor densityNo information availableSpecific gravityNo information availableBulk densityNo information available

Relative density 1.2 @ 15.6°C.

Water solubility Soluble in water

Solubility in other solvents
Autoignition temperature
Decomposition temperature
Kinematic viscosity

No information available
No information available
No information available

Dynamic viscosity 6 mPa s @ 38 °C

Log Pow No information available

Explosive properties Not Applicable

Scale Inhibitor L065

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Oxidizing properties None known.

9.2 Other information

Pour pointNo information availableMolecular weightNo information available

VOC content(%) None

Density No information available

10. Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation.

Ingestion Ingestion may cause stomach discomfort.

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol	= 4000 mg/kg (Rat)	= 9530 μL/kg (Rabbit)	No data available
CALCIUM CHLORIDE	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	No data available

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Sensitization This product does not contain any components suspected to be sensitizing.

Mutagenic effects This product does not contain any known or suspected mutagens.

Carcinogenicity This product does not contain any known or suspected carcinogens.

Reproductive toxicityThis product does not contain any known or suspected reproductive hazards.

Routes of exposure None known.

Routes of entry No route of entry noted.

Specific target organ toxicity

(single exposure)

Specific target organ toxicity

(repeated exposure)

Not classified.

Not classified

Aspiration hazard No hazard from product as supplied.

12. Ecological information

12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Toxicity to algae

This product is not considered toxic to algae.

Toxicity to fish

This product is not considered toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

This product is not considered toxic to invertebrates.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Ethylene glycol	40000 - 60000 mg/L LC50 (Pimephales promelas) = 96 h 40761 mg/L LC50 (Oncorhynchus mykiss) = 96 h 27540 mg/L LC50 (Lepomis macrochirus) = 96 h 14 - 18 mL/L LC50 (Oncorhynchus mykiss) = 96 h 16000 mg/L LC50 (Poecilia reticulata) = 96 h 41000 mg/L LC50 (Oncorhynchus mykiss) = 96 h	6500 - 13000 mg/L EC50 (Pseudokirchneriella subcapitata) = 96 h	46300 mg/L EC50 (Daphnia magna) = 48 h
CALCIUM CHLORIDE	10650 mg/L LC50 (Lepomis macrochirus) = 96 h	No information available	52 mg/L EC50 (Daphnia magna) = 48 h

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12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

12.4 Mobility in soil

Mobility

The product is water soluble, and may spread in water systems.

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects.

None known.

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

EWC Waste disposal No. According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC waste disposal No: 16 03 06 - organic wastes other than those mentioned in 16 03 05

14. Transport information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID/ADG).

14.1 UN Number

Not regulated

14.2 Proper shipping name

Not regulated

14.3 Hazard class(es)

ADR/RID/ADN Hazard class Not regulated

Scale Inhibitor L065

SDS no. L065 Revision date 11/Dec/2014

IMDG Hazard class Not regulated ICAO Hazard class/division Not regulated

14.4 Packing group

ADR/RID/ADN Packing Group

IMDG Packing group

ICAO Packing group

Not regulated
Not regulated

14.5 Environmental hazard

Nο

14.6 Special precautions

Not Applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Please contact SDS@slb.com for info regarding transport in Bulk.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Standard for the Uniform Scheduling of Drugs and Poisons

Ethylene glycol

Schedule 6

Schedule 5

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].

National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].

National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

International inventories

USA (TSCA)

Complies

Scale Inhibitor L065

SDS no. L065 Revision date 11/Dec/2014

European Union (EINECS and ELINCS)CompliesCanada (DSL)CompliesPhilippines (PICCS)CompliesJapan (ENCS)Does not Comply

China (IECSC)

Australia (AICS)

Korean (KECL)

New Zealand (NZIoC)

Complies

Complies

Complies

15.2 Chemical Safety Report

No information available

16. Other information

Prepared by Global Chemical Regulatory Compliance (GCRC), Nicola Anderson

Supersedes date 27/Feb/2009

Revision date 11/Dec/2014

Version 3

The following sections have been

revised

Updated according to GHS/CLP.

Text of R phrases mentioned in Section 2 and 3

R22 - Harmful if swallowed R36 - Irritating to eyes

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

Disclaimer

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.



SAFETY DATA SHEET

DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Product name: ROCIMA™ 607 Biocide Issue Date: 10/15/2018 Print Date: 04/24/2020

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. 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

1. IDENTIFICATION

Product name: ROCIMA™ 607 Biocide

other appropriate methods or actions.

Recommended use of the chemical and restrictions on use

Identified uses: Biocidal product

COMPANY IDENTIFICATION

DDP SPECIALTY ELECTRONIC MATERIALS US, INC.
400 ARCOLA ROAD
COLLEGEVILLE PA 19426-2914
UNITED STATES

Customer Information Number:

833-338-7668

SDSQuestion-NA@dupont.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 1-800-424-9300 **Local Emergency Contact:** 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Acute toxicity - Category 4 - Inhalation Skin irritation - Category 2 Serious eye damage - Category 1 Skin sensitisation - Category 1

Label elements Hazard pictograms



Signal word: **DANGER!**

Hazards

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Harmful if inhaled.

Precautionary statements

Prevention

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear eye protection/ face protection.

Wear protective gloves.

Response

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

If skin irritation or rash occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Solution of organic and inorganic compounds

This product is a mixture.

Component	CASRN	Concentration
Benzisothiazolin-3-one	2634-33-5	>= 11.0 - <= 13.0 %
Bronopol	52-51-7	>= 9.0 - <= 11.0 %

Water 7732-18-5 >= 68.0 - <= 71.0 %

Triethylene glycol 112-27-6 >= 5.0 - <= 7.0 %

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. Immediate medical attention is required.

Eye contact: Rinse immediately with plenty of water and seek medical advice.

Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed Notes to physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray Foam Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition.

Unusual Fire and Explosion Hazards: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Advice for firefighters

Fire Fighting Procedures: Contain run-off. Remain upwind. Avoid breathing noxious fumes from fire-exposed material.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

Page 3 of 14

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ventilate the area. Refer to protective measures listed in sections 7 and 8. MATERIAL IS A POTENTIAL SENSITIZER.

Environmental precautions: Try to prevent the material from entering drains or water courses. Do not contaminate surface water.

Methods and materials for containment and cleaning up: Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. For personal protection see section 8. May cause sensitisation of susceptible persons by skin contact. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. **Other data:** This material is a potential skin sensitizer. See SECTION 8, Exposure Controls/Personal Protection, prior to handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Benzisothiazolin-3-one	Dow IHG	TWA	0.06 mg/m3
	Dow IHG	STEL	0.1 mg/m3
Triethylene glycol	Dow IHG	TWA Total	100 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Hygiene measures: Shower or bathe at the end of working.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures

Eye/face protection: Tightly fitting safety goggles

Skin protection

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. Wear suitable gloves. Rubber or plastic gloves. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

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Other protection: Chemical resistant apron Impervious clothing Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Flowable paste

Color off-white light yellow light brown

Odor No data available
Odor Threshold No data available

pH 6.0

Melting point/range>-1.00 °C (30.20 °F)Freezing pointNo data available

Boiling point (760 mmHg) >100.00 °C (212.00 °F) **Flash point** closed cup >100 °C (212 °F)

Evaporation Rate (Butyl Acetate

= 1)

No data available

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapor Pressure

Relative Vapor Density (air = 1)

Relative Density (water = 1)

Not Applicable

No data available

0.2500000 Pa

No data available

No data available

Water solubility Miscible

Partition coefficient: n- No data available

octanol/water

Auto-ignition temperature

>250.00 °C (482.00 °F)

Decomposition temperatureNo data availableKinematic ViscosityNo data availableExplosive propertiesNo data availableOxidizing propertiesNo data availableMolecular weightNo data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: Stable under recommended storage conditions.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: No data available

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

LD50, Rat, 2,474 mg/kg

Acute dermal toxicity

LD50, Rat, > 5,000 mg/kg

Acute inhalation toxicity

LC50, Rat, 4 Hour, dust/mist, 2.2 mg/l

Skin corrosion/irritation

(US Classification)

Serious eye damage/eye irritation

(US Classification)

Sensitization

May cause sensitisation by skin contact.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Product test data not available. Refer to component data.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available. Refer to component data.

Carcinogenicity

Product test data not available. Refer to component data.

Teratogenicity

Product test data not available. Refer to component data.

Reproductive toxicity

Product test data not available. Refer to component data.

Mutagenicity

Product test data not available. Refer to component data.

Aspiration Hazard

Product test data not available. Refer to component data.

COMPONENTS INFLUENCING TOXICOLOGY:

Benzisothiazolin-3-one

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity

No relevant data found.

Teratogenicity

Did not cause birth defects in laboratory animals.

Reproductive toxicity

In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

Mutagenicity

Not mutagenic when tested in bacterial or mammalian systems.

Bronopol

Specific Target Organ Systemic Toxicity (Single Exposure)

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory Tract

Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs:

Kidnev.

Salivary glands.

May cause nausea and vomiting.

Carcinogenicity

Did not cause cancer in laboratory animals.

Teratogenicity

Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

Reproductive toxicity

In animal studies, did not interfere with reproduction in females.

Mutagenicity

In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

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Triethylene glycol

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations. Repeated excessive aerosol exposures may cause respiratory tract irritation and even death.

Carcinogenicity

Did not cause cancer in laboratory animals.

Teratogenicity

Triethylene glycol did not cause birth defects in animals; reduced fetal body weight effects were seen only at very high doses.

Reproductive toxicity

In animal studies, did not interfere with reproduction.

Mutagenicity

In vitro genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

General Information

Very toxic to aquatic organisms.

Toxicity

Benzisothiazolin-3-one

Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Rainbow trout (Oncorhynchus mykiss), 96 Hour, 1.9 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, 3.7 mg/l, OECD Test Guideline 202 or Equivalent

LC50, Mysid shrimp (Mysidopsis bahia), 96 Hour, 1.9 mg/l

Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, 0.8 mg/l, OECD Test Guideline 201 or Equivalent

NOEC, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, Growth rate, 0.21 mg/l, OECD Test Guideline 201 or Equivalent

Page 8 of 14

ErC50, diatom Skeletonema costatum, static test, 72 Hour, 0.36 mg/l, OECD Test Guideline 201 or Equivalent

NOEC, diatom Skeletonema costatum, static test, 72 Hour, Growth rate, 0.15 mg/l, OECD Test Guideline 201 or Equivalent

Toxicity to bacteria

EC50, Bacteria (active sludge), Respiration inhibition of activated sludge, 3 Hour, 28.52 mg/l

Bronopol

Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Lepomis macrochirus (Bluegill sunfish), flow-through test, 96 Hour, 11 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna, 48 Hour, 1.08 mg/l

EC50, eastern oyster (Crassostrea virginica), 96 Hour, 0.77 mg/l

Acute toxicity to algae/aquatic plants

ErC50, green alga Pseudokirchneriella subcapitata (formerly known as Selenastrum capricornutum), Static, 72 Hour, Growth rate inhibition, 0.25 mg/l NOEC, green alga Pseudokirchneriella subcapitata (formerly known as Selenastrum capricornutum), Static, 72 Hour, Growth rate inhibition, 0.03 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), flow-through test, 21 d, 0.06 mg/l

Toxicity to Above Ground Organisms

Material is slightly toxic to birds on a dietary basis (LC50 between 1001 and 5000 ppm). Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg). oral LD50, Anas platyrhynchos (Mallard duck), 510 mg/kg

Triethylene glycol

Acute toxicity to fish

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).

LC50, Lepomis macrochirus (Bluegill sunfish), static test, 96 Hour, > 10,000 mg/l, Method Not Specified.

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 69,800 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 10,000 mg/l, DIN 38412

Toxicity to bacteria

EC50, Bacteria, 16 Hour, > 10,000 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, > 15,000 mg/l ChV (Chronic Value), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, > 15,000 mg/l

Persistence and degradability

Benzisothiazolin-3-one

Biodegradability: Abiotic degradation: The material is rapidly degradable by abiotic means.

Biodegradation: 24 % **Exposure time:** 28 d

Method: OECD Test Guideline 301B or Equivalent

Theoretical Oxygen Demand: 2.22 mg/mg

Photodegradation Sensitizer: OH radicals Atmospheric half-life: 7.6 hrs

Method: Estimated.

Bronopol

Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail

Biodegradation: 51 - 57 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

10-day Window: Not applicable

Biodegradation: 99 % Exposure time: 1 hrs Method: Simulation study

Theoretical Oxygen Demand: 0.56 mg/mg

Chemical Oxygen Demand: 0.56 - 0.61 mg/mg

Triethylene glycol

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

10-day Window: Pass

Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301A or Equivalent

10-day Window: Not applicable **Biodegradation:** > 70 % **Exposure time:** 2 - 14 d

Method: OECD Test Guideline 302B or Equivalent

Theoretical Oxygen Demand: 1.60 mg/mg

Biological oxygen demand (BOD)

Incubation Time	BOD
5 d	12 - 32 %
10 d	15 - 64 %
20 d	17 - 86 %

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 10.6 Hour

Method: Estimated.

Bioaccumulative potential

Benzisothiazolin-3-one

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): 1.19 OECD Test Guideline 117 or

Equivalent

Bioconcentration factor (BCF): 3.2 Fish Calculated.

Bronopol

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): -0.42 at 20 °C Calculated. **Bioconcentration factor (BCF):** 3.16 Estimated.

Triethylene glycol

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -1.75 Estimated.

Mobility in soil

Benzisothiazolin-3-one

Potential for mobility in soil is high (Koc between 50 and 150).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 104 Estimated.

Bronopol

Potential for mobility in soil is very high (Koc between 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 10 Estimated.

Triethylene glycol

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 10 Estimated.

13. DISPOSAL CONSIDERATIONS

Disposal methods: For disposal, incinerate this material at a facility that complies with local, state, and federal regulations. (See 40 CFR 268)

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14. TRANSPORT INFORMATION

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(1,2-Benzisothiazolin-3-one, Bronopol)

UN number UN 3082

Class 9 Packing group III

Marine pollutant 1,2-Benzisothiazolin-3-one, Bronopol

Transport in bulk Consult IMO regulations before transporting ocean bulk

according to Annex I or II of MARPOL 73/78 and the

IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.(1,2-

Benzisothiazolin-3-one, Bronopol)

UN number UN 3082

Class 9
Packing group III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. 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 considered hazardous under 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

Acute Health Hazard Chronic Health Hazard

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

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 707-295

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Corrosive

Causes irreversible eye damage

Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Harmful if absorbed through skin

Harmful if inhaled

Harmful if swallowed

This product is toxic to fish and wildlife.

16. OTHER INFORMATION

Hazard Rating System

HMIS

Health	Flammability	Physical Hazard
3*	1	0

^{* =} Chronic Effects (See Hazards Identification)

Revision

Identification Number: 101127050 / A749 / Issue Date: 10/15/2018 / Version: 2.1

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

3	
Dow IHG	Dow Industrial Hygiene Guideline
STEL	Short Term Exposure Limit (STEL):
TWA	Time Weighted Average (TWA):

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. 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)SDSs 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.

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SAFETY DATA SHEET

Creation Date 31-Mar-2008 Revision Date 24-Dec-2021 Revision Number 5

1. Identification

Product Name Poly(acrylic acid), sec. stand.

Cat No.: AC178060000; AC178060010; AC178060050; AC178060100;

AC178060500

CAS No 9003-01-4

Synonyms 2-Propenoic acid polymer; Acrylic acid resin.

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

Revision Date 24-Dec-2021

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Acrylic resin	9003-01-4	<=100

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature 520 °C / 968 °F

Explosion Limits

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

Environmental Precautions Should not be released into the environment.

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Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up**

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials.

Strong oxidizing agents. Strong bases. Amines. Ammonia.

8. Exposure controls / personal protection

Exposure Guidelines

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Physical and chemical properties

Physical StatePowder SolidAppearanceWhite

Odor vinegar-like
Odor Threshold Vinegar-like
No information available

pH 2.5-3.0 1% aq.sol

Melting Point/Range No data available

Melting Point/RangeNo data availableBoiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density Not applicable

Specific Gravity

No information available

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature

Soluble in water
No data available
520 °C / 968 °F

Decomposition TemperatureNo information available

Viscosity Not applicable

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

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Conditions to AvoidAvoid dust formation. Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong bases, Amines, Ammonia

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

11. Toxicological information

Acute Toxicity

Product Information The toxicological properties have not been fully investigated

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Mist LC50

Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acrylic resin	LD50 = 2500 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	LC50 > 5.1 mg/L (Rat) 4 h

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Acrylic resin	9003-01-4	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acrylic resin	Not listed	LC50: = 580 mg/L, 96h	Not listed	Not listed

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(Lepomis macrochirus)

Soluble in water Persistence is unlikely based on information available. Persistence and Degradability

No information available. **Bioaccumulation/ Accumulation**

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods**

hazardous waste. Chemical waste generators must also consult local, regional, and

national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

Not regulated DOT Not regulated TDG Not regulated <u>IATA</u> IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory
			Active-Inactive	Flags
Acrylic resin	9003-01-4	X	ACTIVE	XU

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)

X - Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Acrylic resin	9003-01-4	X	-	-	X	X	Х	X	Х	KE-28833

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

See section 2 for more information SARA 311/312 Hazard Categories

CWA (Clean Water Act)

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable

Health Administration

CERCLA Not applicable

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California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Acrylic resin

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous
					Substances (RoHS)
Acrylic resin	9003-01-4	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

16. Other information

Prepared By Regulatory Affairs

9003-01-4

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Not applicable

 Creation Date
 31-Mar-2008

 Revision Date
 24-Dec-2021

 Print Date
 24-Dec-2021

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Not applicable

Not applicable

Not applicable

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS



APPENDIX D

NMOCD Notifications

From: <u>Green, Garrett J</u>

To: <u>Tacoma Morrissey</u>; <u>Ben Belill</u>

Subject: Fwd: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

Date: Friday, May 12, 2023 5:50:39 PM

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

From: "Enviro, OCD, EMNRD" < OCD. Enviro@emnrd.nm.gov>

Date: May 12, 2023 at 4:02:13 PM MDT

To: "Green, Garrett J" <garrett.green@exxonmobil.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet,

Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 -

5/19/23)

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. When sampling at multiple sites, a more detailed schedule of days at each site should be provide. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, May 11, 2023 11:04 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey

<tmorrissey@ensolum.com>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of May 15, 2023.

Monday

- Ross Draw 3031/ nAPP2227244441 & NAPP2300442748

Tuesday

- Ross Draw 3031/ nAPP2227244441 and NAPP2300442748
- Outrider Fed 28 Pad B / NAPP2306936047

Wednesday

Outrider Fed 28 Pad B / NAPP2306936047

Thursday

- Outrider Fed 28 Pad B / NAPP2306936047
- PLU PC 17 BATTERY/ nAPP2233951574

Friday

- Sizzler 2H / NMAP1822337753
- PLU PC 17 BATTERY/ nAPP2233951574
- JRU 108 / nAPP2217931599

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 229262

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	229262
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
bhall	Closure approved. Site will need to meet all the requirements of 19.15.29.13 NMAC at time of plugging and abandonment or when the site is no longer reasonably needed for production, whichever comes first.	7/6/2023