

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

Form C-141  
Revised April 3, 2017

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	ConocoPhillips	Contact	Robert Bourque
Address	3300 North A Street Midland, TX 79705	Telephone No.	337-962-8672
Facility Name	Ruby Federal #20	Facility Type	Production Site
Surface Owner	BLM	Mineral Owner	BLM
		API No.	30-025-40894

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	18	175	32E	2310	South Line	910	East Line	Lea

Latitude 32.83 N Longitude 103.80 W NAD83

#### NATURE OF RELEASE

Type of Release	Spill	Volume of Release	20 bbls	Volume Recovered	20 bbls
Source of Release	Pump Truck	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Pat Mckblvey BLM/Max Brown OCD		
By Whom?	Robert Bourque	Date and Hour	July 5, 2017 7:30pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

**APPROVED**

By Olivia Yu at 7:47 am, Aug 04, 2017

Describe Cause of Problem and Remedial Action Taken.\*

Third party company was cleaning their tubs onto location after leaving the site we were drilling on. Once the spill was discovered, we reported it to BLM and awaited direction and permission to begin clean up.

Describe Area Affected and Cleanup Action Taken.\*

The site had a 25ft by 100ft area affected by hte spill and a trail approximately 1ft wide leading off location approximately 190ft long leading into were it puddled in a 10ft by 27ft spot. The spill was cleaned by EES. They scraped the affected soil up and took soil samples to be tested to ensure a proper clean had taken place.

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

#### OIL CONSERVATION DIVISION

Signature: *James R. Miller*

Printed Name: James R. Miller

Title: W.S.E.C. HSE support

E-mail Address: james.miller@contractor.cop.com

Date: 04 Aug 2017

Phone: 210 215 4484

Approved by Environmental Specialist: *OF*

Approval Date: 8/4/2017

Expiration Date: xx/xx/xxxx

Conditions of Approval:  
Provide MSDS of the chemical(s) in the  
release. Scaled map with soil sample locations

Attached ☐

\* Attach Additional Sheets If Necessary

1RP-4753

Chemical release; waste manifest  
document as substitute for soil  
samples.

NMOCD grants  
closure to  
1RP-4753.



The Leader in Nationwide 24-Hour Emergency Management  
For Emergency Only: 1-800-579-2872

ENVIRONMENTAL

August 3, 2017

Sent Via Email: [Jorge.marin@bjservices.com](mailto:Jorge.marin@bjservices.com)

Mr. Jorge Marin  
BJ Services  
11211 FM 2920 Road  
Tomball, Texas 77375

**RE: BLUE DYE/SEALBOND/WATER RELEASE – FINAL REPORT**

**RUBY FEDERAL 20 PADSITE (N 32.50.017 – W 103.47.990)  
LOVINGTON, LEA COUNTY, NEW MEXICO**

**CES PROJECT NO. EM170936X0**

Mr. Marin:

Please accept this document as the final report detailing the emergency response and remedial actions taken for the blue dye/sealbond/water release that occurred on July 5, 2017, at the above-referenced location.

**INCIDENT BACKGROUND:**

On July 6, 2017, at approximately 5:28 p.m. CDT, a represent with BJ Services reported a release of blue dye/sealbond/water that occurred on July 5, 2017 at the above-referenced location. The release was caused when a batch mixer valve was opened and released approximately 924 gallons of the material to the pad site and soil area surrounding the pad site.

**EMERGENCY RESPONSE:**

On July 6, 2017, at approximately 5:28 p.m. CDT, a representative with BJ Services, Mr. Jorge Marin, retained Cura Emergency Services, L.C. (CES) to manage the environmental cleanup on their behalf. Based on the available information, the CES incident manager scheduled a crew from Emergency Environmental Services (EES) to mobilize to the site on July 7, 2017, to meet with the Conoco Phillips representative, Mr. Robert Bourque, and develop a plan of action to complete all necessary remedial actions.

**REGULATORY NOTIFICATION:**

The released material did not exceed the reportable quantity and did not impact any sensitive receptors; therefore, no regulatory reporting was necessary.

**REMEDIAL ACTIONS:**

On July 8, 2017, EES personnel arrived on site and conducted an inspection of the area. Crew members utilized a skid steer to conduct a surface scrape of the well pad to collect all impacted soil from the area. All impacted soil that was collected from the pad site was containerized into

one (1) roll-off box for transport and disposal. Crew members then hand excavated all impacted soil off the well pad site to avoid running over the flow lines that crossed the area with the equipment. All impacted soil was collected and containerized into the roll-off box for transport and disposal. Mr. Bourque, with Conoco Phillips conducted an inspection and advised that the remediation of the area was satisfactory. It was concluded that there is no analytical to be ran due to the non-hazardous nature of the chemicals released. The New Mexico Bureau of Land Management (BLM) and the New Mexico Oil Conservation Division were notified that no clearance samples were to be taken. EES personnel were advised to mobilize at a later date to seed the area utilizing BLM seed mix #2. With the site secured, EES personnel scheduled to return on July 14, 2017, to complete the seeding.

On July 14, 2017, EES personnel arrived on site and met with Mr. Bourque. EES personnel then deployed BLM seed mix #2 to the excavated area. With the site returned to pre-release conditions, EES personnel collected all tools and equipment and demobilized from the site.

#### **WASTE DISPOSAL:**

On July 11, 2017, 12 cubic yards of impacted soil was transported using one (1) roll-off container to, and disposed of at, Gandey Marley, Inc. in Roswell, New Mexico (see attached Uniform Hazardous Waste Manifests).

#### **CONCLUSION AND RECOMMENDATIONS:**

The impacted soils were excavated and due to the non-hazardous nature of the materials released, no confirmation soil samples were collected from the site. The area was seeded utilizing BLM seed number 2. Based on these results, it appears that the remedial actions were successful and no further action should be required. CES recommends that the incident be closed.

Cura Emergency Services, L.C. appreciates the opportunity to provide you with our professional expertise in this matter. If you have any questions, please feel free to call us at (972) 378-7333.

Respectfully,  
Cura Emergency Services, L.C.



Rex L. Waggoner  
Project Manager

*Attachments: CES Hazardous Materials Incident Report  
Uniform Hazardous Waste Manifest  
Site Photos*

*Cc: BJ Services*

*Mr. Juan Blanco – [juan.blanco@bjservices.com](mailto:juan.blanco@bjservices.com)*

*Mr. Matt McCleary – [matt.mccleary@bjservices.com](mailto:matt.mccleary@bjservices.com)*

*Ms. Bridget Todd – [Bridget.todd@bjsservices.com](mailto:Bridget.todd@bjsservices.com)*

*Mr. Jason Brady – [jason.brady@bjsservices.com](mailto:jason.brady@bjsservices.com)*

*Mr. Charles Williford – [Charles.williford@bjsservices.com](mailto:Charles.williford@bjsservices.com)*

*New Mexico Environmental Department*

*Ms. Olyvia Yu – Oil Conservation Department*

*[Olyvia.yu@state.nm.us](mailto:Olyvia.yu@state.nm.us)*

**Cura Emergency Services, L.C.**

6205 Chapel Hill Boulevard, Suite 100

Plano, Texas 75093

Ph. (972) 378-7333 Fax (972) 378-6789

**Hazardous Materials  
Incident Report**

Client File No : \_\_\_\_\_

**A. Incident Information :**Incident Manager : Rex Waggoner

<b>Project No. :</b> <u>EM170936X0 - RLW</u>	<b>Project Name :</b> <u>BJ Services - Lovington - NM</u>
<b>Date of Loss :</b> <u>7/5/2017</u>	<b>Time of Loss :</b> <u>01:00 AM CDT</u>
<b>Date Reported :</b> <u>7/6/2017</u>	<b>Time of Reported :</b> <u>05:26 PM CDT</u>
<b>Person Reporting :</b> <u>Jorge Marin</u>	<b>Phone :</b> <u>(575)631-8835</u>
<b>Driver :</b> _____	<b>Tractor # :</b> _____ <b>Trailer # :</b> _____
<b>Incident Location Contact :</b> <u>Robert w/ Conoco</u>	<b>Phone :</b> <u>(337)962-8672</u>
<b>Incident Location :</b> <u>N 32.50.017 - W 103.47.990</u>	
<b>City :</b> <u>Lovington</u>	<b>County :</b> <u>Lea</u> <b>State :</b> <u>NM</u>
<b>Incident Description :</b>  On July 6, 2017, at approximately 5:28 p.m. CDT, a represent with BJ Services reported a release of blue dye/sealbond/water that occurred on July 5, 2017 at the above-referenced location. The release was caused when a batch mixer valve was opened and released approximately 924 gallons of the material to the pad site and soil area surrounding the pad site.	
<b>Surface Affected :</b> <u>Soil / grass</u> <u>Well Pad</u>	
<b>Water Affected :</b> <u>None</u>	
<b>Sensitive Report Impact :</b>	

## B. Chemical Information

Client File No : \_\_\_\_\_

	Reportable Qty	Reported Volume	Actual* Volume	Gals /Lbs
Chemical : <u>Dye</u>	<u>NR</u>	<u>&lt;924</u>	<u>&lt;924</u>	<u>Gals</u>
Chemical : <u>Seal Bond</u>	<u>NR</u>	<u>&lt;924</u>	<u>&lt;924</u>	<u>Gals</u>
Chemical : _____	_____	_____	_____	_____

## C. Health &amp; Safety :

<b>Site Monitoring (If Applicable) :</b>	<b>PPE :</b>
<input type="checkbox"/> Vapor Concentration (ppm) : <u>unmetered</u>	<input type="checkbox"/> Level A <input type="checkbox"/> Level C
<input type="checkbox"/> Available Oxygen (%) : <u>ambient</u>	<input type="checkbox"/> Level B <input checked="" type="checkbox"/> Level D
<input type="checkbox"/> LEL Exceeded	<input type="checkbox"/> MSDS Attached

**Site Special Precations :**  
No special precautions were noted for this site.

**Site Condition :**  
No complicating conditions existed at the site during cleanup operations.

**Injuries : Explain :**  
\_\_\_\_\_ No injuries or fatalities that were a direct result of the released material were reported.

## D. Emergency Response :

**Initial Emergency Actions :**

On July 6, 2017, at approximately 5:28 p.m. CDT, a representative with BJ Services, Mr. Jorge Marin, retained Cura Emergency Services, L. C. (CES) to manage the environmental cleanup on their behalf. Based on the available information, the CES incident manager scheduled a crew from Emergency Environmental Services (EES) to mobilize to the site on July 7, 2017, to meet with the Conoco Phillips representative, Mr. Robert Bourque, and develop a plan of action to complete all necessary remedial actions.

\*Unless specified in the Incident Description section, the "Actual Volume" is an estimate, based on the observations of the CES subcontractor

## E. Corrective Actions :

Client File No : \_\_\_\_\_

**Corrective Actions :**

On July 8, 2017, EES personnel arrived on site and conducted an inspection of the area. Crew members utilized a skid steer to conduct a surface scrape of the well pad to collect all impacted soil from the area. All impacted soil that was collected from the pad site was containerized into one (1) roll-off box for transport and disposal. Crew members then hand excavated all impacted soil off the well pad site to avoid running over the flow lines that crossed the area with the equipment. All impacted soil was collected and containerized into the roll-off box for transport and disposal. Mr. Bourque, with Conoco Phillips conducted an inspection and advised that the remediation of the area was satisfactory. It was concluded that there is no analytical to be ran due to the non-hazardous nature of the chemicals released. The New Mexico Bureau of Land Management (BLM) and the New Mexico Oil Conservation Division were notified that no clearance samples were to be taken. EES personnel were advised to mobilize at a later date to seed the area utilizing BLM seed mix #2. With the site secured, EES personnel scheduled to return on July 14, 2017, to complete the seeding.

On July 14, 2017, EES personnel arrived on site and met with Mr. Bourque. EES personnel then deployed BLM seed mix #2 to the excavated area. With the site returned to pre-release conditions, EES personnel collected all tools and equipment and demobilized from the site.

## F. Responsible Party Information :

Responsible Party : BJ Services

RP Ref # : \_\_\_\_\_

Contact : Mrs. Bridget Todd

Contact : \_\_\_\_\_ X Send Report

Address : 11211 FM 2920 Road

Phone : (281)908-9083

City : Tomball

State : TX

Zip : 77375

Fax : \_\_\_\_\_

Incident Report (Cont.)

Project Number : EM170936X0 - RLW

**G . Regulatory Agencies**

Client File No : \_\_\_\_\_

☐ **Reportable Spill (Check if yes)**

**Explain :** Pursuant to New Mexico state regulations, this was not a reportable incident.

**No Regulatory Notification**

**Contact :** \_\_\_\_\_ **Contact Date :** \_\_\_\_\_

**Address :** \_\_\_\_\_ **Phone:** \_\_\_\_\_ **Contact Time:** \_\_\_\_\_

**City :** \_\_\_\_\_ **State :** \_\_\_\_\_ **Zip:** \_\_\_\_\_ **Fax :** \_\_\_\_\_

☐ **Report Required** **Confirmation No :** \_\_\_\_\_

**Note :** \_\_\_\_\_



Incident Report (Cont.)

Project Number : EM170936X0 - RLW

H. Disposal Facilities

Client File No : \_\_\_\_\_

<b>Waste Facility :</b>	Gandey Marley, Inc.		
<b>Contact Person:</b>	_____		
<b>Address :</b>	7200 East Second Street		
<b>City :</b>	Roswell	<b>State :</b> NM	<b>Zip:</b> 88201
<b>Phone :</b>	(505) 398-4960	<b>Ext :</b> _____	<b>Fax:</b> _____
<b>E-Mail :</b>	_____ <b>Website :</b> _____		
<b>Disposal Date :</b>	07/11/2017	<b>Amount :</b> One (1) CM - 12 CY	<b>X Disposal Document Attached</b>

*Incident Report (Cont.)*

**Project Number :** EM170936X0 - RLW

**I. Contractors**

**Client File No :** \_\_\_\_\_

**Company :** Emergency Environmental Services (EES)

**Contact Person:** Mike Moore

**Address :** 2641 Blue Mound Road West, Ste. 106

**Phone :** (817)750-0595

**City :** Haslet

**State :** TX

**Zip:** 76052

**Fax:** \_\_\_\_\_

**E-Mail :** mike.moore@eesresponse.com

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number <b>015720716 JJK</b>	
5. Generator's Name and Mailing Address <b>BS SERVICES 11211 FM 2920 ROAD TOMBALL, TX 77375</b>			Generator's Site Address (if different than mailing address) <b>N 32.50.017, W 103.47.990 HOUSTON, TX</b>			
Generator's Phone: <b>281-908-7085</b>						
6. Transporter 1 Company Name <b>LOWE CONSTRUCTION INC</b>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>LOWE HANDLING 45 W CROSSROADS ROSWELL, NM 88203</b>			U.S. EPA ID Number			
Facility's Phone: <b>505-347-0434</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
		No.	Type			
1.	<b>SAND AND GRAVEL IMPACTED w/ SEABOARD LT AND PYRETHROID BLUE LT</b>	1	CM	12	Y	
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information <b>LOOSE EM 170136XO - RLW</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name <b>MIKE ABUE ON BEHALF OF</b>		Signature 		Month Day Year <b>7 8 17</b>		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Jacob Lytle</b>		Signature 		Month Day Year <b>7 11 17</b>		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name <b>2 TOLTON</b>		Signature 		Month Day Year <b>4:13 PM 10 7 11 17</b>		



ENVIRONMENTAL

**EM170936X0**  
**Lovington, NM**





**EM170936X0**  
**Lovington, NM**

**Material Safety Data Sheet**

PYLAKLOR BLUE LX-10092

LX-10092

**Pylam Products Company, Inc.**

2175 East Cedar St

Tempe, AZ 85281

480-929-0070

[www.pylamdyes.com](http://www.pylamdyes.com)

DATE PREPARED:.....December 1, 2006

DATE REVISED:.....October 26, 2009

CHEMTREC PHONE#:.....800-424-9300

PRODUCT NUMBER: .....LX-10092

**Section 1 - Chemical Product and Company Identification**

PRODUCT NAME: .....PYLAKLOR BLUE LX-10092

TRADE NAME: .....Pylaklor Blue LX-10092

SYNONYMS: .....Pylaklor Blue LX-10092

CHEMICAL FAMILY: .....Triphenylmethane

CHEMICAL FORMULA: .....Acid Blue 1 (CAS# 129-17-9)

CAS NUMBER: .....129-17-9

**Section 2 - Composition Information on Ingredients**

HAZARDOUS INGREDIENTS	HAZARDOUS %	TLV (UNITS)	PRODUCT CAS#
Product contains Acid Blue 1, which is on the IARC list.			

TOXIC INGREDIENTS	PERCENT	CAS NUMBER	De Minimis Level
N/A	N/A	N/A	N/A

**Section 3 - Hazard Identification**

Health	1
Flammability	1
Reactivity	1
Personal Protection	SD

Primary Entry Routes:.....Ingestion, Inhalation, Skin &amp; Eyes.

**ACUTE EFFECTS:**

Inhalation: .....Inhalation may cause respiratory tract discomfort.

Eyes:.....Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation.

Skin:.....N/A.

Ingestion: .....N/A.

Carcinogenicity: .....This chemical is on the IARC list.

Chronic Effects:.....N/A.

Threshold Limit Value:.....N/A.

Signs &amp; Symptoms of Exposure:.....Skin may get discolored upon contact with the dye.

**Section 4 - First Aid Measures**

Inhalation: .....If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

IMPORTANT: While Brenntag believes that the information given on this label and in this MSDS is accurate, Brenntag makes no representation or warranty, express, implied or otherwise regarding and assumes no liability for the accuracy or completeness of the information.

The Buyer assumes all responsibility for using and handling the Product in accordance with applicable federal, state, and local regulations.

This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

## Material Safety Data Sheet

PYLAKLOR BLUE LX-10092                      LX-10092

**Eye Contact:** ..... Immediately flush eyes with plenty of water for at least fifteen minutes. Get medical attention.

**Skin Contact:** ..... Wash thoroughly with soap and water.

**Ingestion:** ..... Seek medical attention immediately. Inducing vomiting is sometimes recommended. Never give fluids to an unconscious person.

### Section 5 – Fire-Fighting Measures

**Flash Point (F):** ..... N/A.

**LFL:** ..... N/A.

**HFL:** ..... N/A.

**Extinguishing Media:** In case of fire use water spray, foam, dry chemical or CO<sub>2</sub>.

**Unusual Fire/Explosion Hazard:** N/A.

**Fire Fighting Instructions:** ..... Use water spray to cool fire-exposed containers. Dusts, when mixed with the right proportions of air and in a source of ignition, have the potential to be explosive.

**Fire Fighting Equipment:** ..... Firefighters should be equipped with self-contained breathing apparatus and protective clothing.

### Section 6 – Accidental Release Measures

**Spills:** ..... Spills should be swept up and placed in containers. Spill areas can be washed with water; collect waste water for approved disposal method.

**Regulatory Requirements:** ..... Follow All OSHA Regulations and Standards (29 CFR 1910.1200)

### Section 7 – Handling and Storage

**Handling Precautions:** ..... In accordance with good industrial practices, handle with care to avoid contact.

**Storage Requirements:** ..... Keep container tightly closed. Store in a cool, dry place.

**Regulatory Requirements:** ..... Follow All OSHA Regulations and Standards (29 CFR 1910.1200)

### Section 8 – Exposure Controls / Personal Protection

#### Engineering Controls

**Ventilation:** ..... Use local ventilation if dusting is a problem.

#### Administrative Controls

**Respiratory Protection:** ..... Avoid the inhalation of dusts. When the potential for dusting exists use a NIOSH/MSHA approved respirator with dust filter.

**Protective Clothing / Equipment:** Wear gloves, coveralls, apron, boots as necessary to prevent skin contact. Wear safety glasses with side-shields (frame goggles).

**Safety Stations:** ..... Eye wash station should be easily accessible.

**Contaminated Equipment:** ..... N/A.

**Comments:** ..... Wash hands after using.

### Section 9 – Physical and Chemical Properties

**Physical State:** ..... Powder.

**Appearance & Odor:** ..... Dark powder; odorless.

**Vapor Pressure:** ..... N/A.

**Vapor Density (Air=1):** ..... N/A.

**Water Solubility:** ..... Soluble.

**Other Solubility:** ..... N/A.

**Boiling Point:** ..... N/A.

**Freezing Point:** ..... N/A.

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## Material Safety Data Sheet

PYLAKLOR BLUE LX-10092                      LX-10092

Formula Weight: .....N/A.

% Volatile: ..... N/A.

Specific Gravity: .....N/A.

Evaporation Rate: ..... N/A.

Ph: ..... N/A.

### Section 10 – Stability and Reactivity

**Stability:**..... Stable.

**Polymerization:**..... None expected.

**Polymerization to Avoid:**..... None expected.

**Chemical Incompatibilities:**..... Oxidizing and reducing agents may destroy color.

**Conditions to Avoid:** ..... None.

**Hazardous Decomposition Products:**..... Carbon monoxide, carbon dioxide, oxides of nitrogen, sulfur, and other potentially toxic fumes.

### Section 11- Toxicological Information

**Signs and Symptoms of Exposure:**..... Skin may get discolored upon contact with the dye.

**Irritation:**..... May be slightly irritating to the eyes & skin on contact.

**Acute Oral Effects:**..... N/A.

**Chronic Effects:**..... N/A.

**Carcinogenicity:** ..... This chemical is on the IARC list.

**Acute Inhalation Effects:**..... Inhalation may cause respiratory tract discomfort.

**LD<sub>50</sub>:**..... Rat: > 5000 mg/kg.

### Section 12 – Ecological Information

**Ecotoxicity:**..... N/A.

### Section 13 – Disposal Considerations

**Disposal:** ..... Waste disposal should be in accordance with existing federal, state and local environmental regulations.

**Container Cleaning/Disposal ..** Disposal should be in accordance with existing federal, state and local environmental regulations.

### Section 14 - Transportation Information

#### DOT Transportation Data

**Shipping Name:** ..... Non-hazardous powdered dye; Item # 154800.

**Hazard Class:** ..... N/A.

**ID No. / UN Code:**..... N/A.

**NA Number:** ..... N/A.

**Packaging Group:** ..... N/A.

**Special Provisions:**..... None.

**Reportable Quantity:** ..... N/A.

**Vessel Stowage:** ..... N/A.

**Emergency Response Page#:**.. N/A.

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**Material Safety Data Sheet**

PYLAKLOR BLUE LX-10092

LX-10092

**Section 15 – Regulatory Information****EPA Regulations****RCRA Hazardous Waste Number:**.....Not regulated.**RCRA Hazardous Waste Classification:**.....N/A.**CERCLA Hazardous Substance:** .....Not regulated.**CERCLA Reportable Quantity (RQ):**.....N/A.**SARA 311/312 Codes:**.....N/A.**SARA Toxic Chemical:**.....N/A.**SARA EHS** .....SARA Title III Section 302: This product does not contain any chemicals regulated under Section 302 as extremely hazardous.**TSCA**.....This product is registered under the regulations of the Toxic Substances Control Act (TSCA).**OSHA Regulations****Air Contaminant :** .....N/A.**OSHA Criteria:**.....No carcinogenicity unless listed in Section 3 of the Material Safety Data Sheet.**REGULATORY INFORMATION**

COMPONENT/ CAS #	CONCENTRATION	STATE CODE

**Section 16 – Other Information**

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## Section 1. Identification

**Product name** : SealBond™ LT  
**Product code** : 488731

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

**Identified uses** : Cement Spacer Additive.

**Print date** : 7/7/2016

**Validation date** : 7/7/2016

**Version** : 1

**Supplier's details** : Baker Hughes Oilfield Operations  
12645 W. Airport Blvd.  
Sugar Land, TX 77478  
For Product Information/SDSs Call: 281-351-8131

**Emergency telephone number (with hours of operation)** : CHEMTREC 800-424-9300 (U.S. 24 hour)  
(+1)281-276-5400  
CANUTEC 613-996-6666 (Canada 24 hours)  
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : COMBUSTIBLE DUSTS  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : May form combustible dust concentrations in air.  
May cause cancer.  
Causes damage to organs through prolonged or repeated exposure. (lungs)

### Precautionary statements

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazards identification

- Supplemental label elements** : Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
- Hazards not otherwise classified** : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	%	CAS number
Magnesium oxide	1 - 5	1309-48-4
Crystalline silica: Quartz (SiO <sub>2</sub> )	1 - 5	14808-60-7

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Get medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : irritation, redness
- Inhalation** : respiratory tract irritation, coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical powder.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Fine dust clouds may form explosive mixtures with air.

**Hazardous thermal decomposition products** : metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

- Large spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Magnesium oxide	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total particulates <b>OSHA PEL (United States, 2/2013).</b> TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total particulates
Crystalline silica: Quartz (SiO <sub>2</sub> )	<b>OSHA PEL Z3 (United States, 2/2013).</b> TWA: 10 MG/M <sup>3</sup> / (%SiO <sub>2</sub> +2), 0 times per shift, 8 hours. Form: Respirable TWA: 250 MPPCF / (%SiO <sub>2</sub> +5), 0 times per shift, 8 hours. Form: Respirable <b>ACGIH TLV (United States, 4/2014).</b>

## Section 8. Exposure controls/personal protection

TWA: 0.025 mg/m<sup>3</sup>, 0 times per shift, 8 hours. Form: Respirable fraction  
**OSHA PEL 1989 (United States, 3/1989). Notes: as quartz**  
 TWA: 0.1 mg/m<sup>3</sup>, (as quartz), 0 times per shift, 8 hours. Form: Respirable dust

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Eye/face protection** : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

**Hand protection** : Chemical-resistant gloves.

**Skin protection** : Wear long sleeves to prevent repeated or prolonged skin contact.

**Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Solid. [Powder.]

**Color** : Pale brown

**Odor** : None.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting/freezing point** : Not available.

**Boiling point** : Not available.

**Initial Boiling Point** : Not available.

**Flash point** : Not available.

**Burning time** : Not available.

**Burning rate** : Not available.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

## Section 9. Physical and chemical properties

<b>Relative density</b>	: 1.7 to 1.8
<b>Density</b>	: 14.6 (lbs/gal)
<b>Solubility in water</b>	: Partially soluble in water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>VOC</b>	: Not available.
<b>Pour Point</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
<b>Incompatible materials</b>	: None known
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Magnesium oxide	LD50 Oral	Rat - Male	3870 mg/kg	-
Crystalline silica: Quartz (SiO <sub>2</sub> )	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

No applicable toxicity data

#### Sensitization

No applicable toxicity data

#### Mutagenicity

No applicable toxicity data

#### Carcinogenicity

Product/ingredient name	OSHA	IARC	NTP
Crystalline silica: Quartz (SiO <sub>2</sub> )	+	1	Known to be a human carcinogen.

## Section 11. Toxicological information

### Reproductive toxicity

No applicable toxicity data

### Teratogenicity

No applicable toxicity data

### Specific target organ toxicity (single exposure)

Not applicable.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Crystalline silica: Quartz (SiO <sub>2</sub> )	Category 1	Inhalation	lungs

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	129000 mg/kg

## Section 12. Ecological information

### Toxicity

No applicable toxicity data

### Persistence and degradability

Not available.



## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

**DOT Reportable Quantity** : Not applicable.

**Marine pollutant** : Not available.

**North-America NAERG** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 12(b) one-time export:** No products were found.  
**TSCA 12(b) annual export notification:** No products were found.  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 307:** No products were found.  
**Clean Water Act (CWA) 311:** No products were found.

**United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :**

## Section 15. Regulatory information

List name	Status	Ingredient name	Name on list	Conc.
None of the components are listed.				

[SARA 302/304](#) : No products were found.

[SARA 311/312](#)

[Classification](#) : Delayed (chronic) health hazard

[SARA 313](#)

[Supplier notification](#) : No products were found.

[Canada](#)

[Canada \(CEPA DSL\):](#) : All components are listed or exempted.

## Section 16. Other information

The customer is responsible for determining the PPE code for this material.

[National Fire Protection Association \(U.S.A.\)](#)



[History](#)

[Date of printing](#) : 7/7/2016

[Notice to reader](#)

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