**Material Safety Data Sheet****PRO CLA LOK**

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		

1. Product and Company Identification

Material name PRO CLA LOK
Version # 08
Issue date January-07-2013
Revision date January-07-2013
Supersedes date April-04-2011
CAS # Mixture
Product use Clay Control
Manufacturer information Weatherford®
2000 St. James Place
Houston, TX 77056 United States
Email: productsafety.compliance@weatherford.com
Weatherford Information Line: 713-836-4000

Supplier information Producers Service Corp.
109 South Graham St.
Zanesville, OH 43701 US
Supplier emergency telephone number(s) 24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview WARNING
May be ignited by heat, sparks or flames. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

- Eyes** Do not get this material in contact with eyes.
- Skin** Do not get this material in contact with skin.
- Inhalation** Do not breathe dust/fume/gas/mist/vapors/spray.
- Ingestion** Components of the product may be absorbed into the body by ingestion.

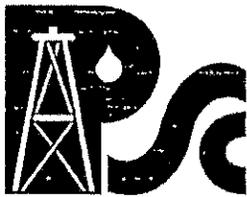
Target organs Central nervous system. Eyes. Lungs. Respiratory system. Skin.

Potential environmental effects May cause long-term adverse effects in the environment.



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3. Composition / Information on Ingredients

Components	CAS #	Percent
Dimethyldiallylammonium Chloride	7398-69-8	20 - 40
Ethylene Glycol	107-21-1	10 - 30

4. First Aid Measures

First aid procedures

- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
- Skin contact** Get medical attention if irritation develops or persists.
- Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. Get medical attention immediately.
- Ingestion** If swallowed, seek medical advice immediately and show this container or label. Get medical attention immediately.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Extinguishing media

- Suitable extinguishing media** Water. Water spray. Water fog. Alcohol foam. Polymer foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

- Protective equipment and precautions for firefighters** Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

Specific methods Use water spray to cool unopened containers. In the event of fire, cool tanks with water spray.

6. Accidental Release Measures

Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

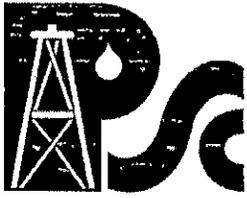
Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas. Should not be released into the environment.



**Methods for cleaning up**

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage**Handling**

Do not handle or store near an open flame, heat or other sources of ignition. Use only with adequate ventilation. Avoid release to the environment. Handle and open container with care. Wash thoroughly after handling.

Storage

Keep away from heat and sources of ignition (spark or flame). Keep containers tightly closed in a cool, well-ventilated place. Use care in handling/storage.

8. Exposure Controls / Personal Protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Ethylene Glycol (107-21-1)	Ceiling	100 mg/m3	Aerosol.

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Respiratory protection**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use.

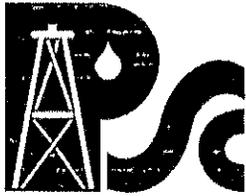
General hygiene considerations

When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Colorless - light yellow
Odor	Not available.
Odor threshold	Not available.
pH	6 - 9
Vapor pressure	14.32 hPa estimated
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	1.03 - 1.06
Relative density	Not available.





Flash point	> 201.00 °F (> 93.89 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	748.00 °F (397.78 °C) estimated
Evaporation rate	Not available.
Other data	
Density	Not available.
Flammability class	Combustible IIIB
Partition coefficient (oil/water)	Not available.

10. Chemical Stability & Reactivity Information

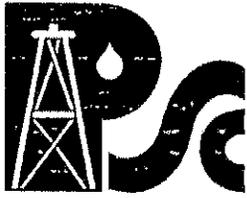
Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Amines. Isocyanates. Strong oxidizing agents. Strong acids. Caustics.
Hazardous decomposition products	Not available.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
PRO CLA LOK (Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	63533.332 mg/kg, estimated
<i>Oral</i>		
LD50	Cat	11000 mg/kg, estimated
	Dog	36666.668 mg/kg, estimated
		58.7333 g/kg, estimated
	Guinea pig	54.6667 g/kg, estimated
	Mouse	97.3333 g/kg, estimated
	Rat	14184 mg/kg
		39.2667 g/kg, estimated
<i>Other</i>		
LD50	Mouse	38.6667 g/kg, estimated
	Rat	18666.666 mg/kg, estimated





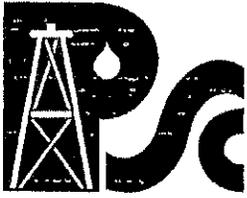
Components	Species	Test Results
Dimethyldiallylammonium Chloride (7398-69-8)		
Acute		
<i>Oral</i>		
LD50	Rat	2520 mg/kg
Ethylene Glycol (107-21-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	9530 mg/kg
<i>Oral</i>		
LD50	Mouse	14.6 g/kg
	Rat	4000 mg/kg
Sensitization	Not expected to be hazardous by OSHA criteria.	
Chronic effects	Not expected to be hazardous by OSHA criteria.	
Carcinogenicity	Not expected to be hazardous by OSHA criteria.	
ACGIH Carcinogens		
Ethylene Glycol (CAS 107-21-1)	A4 Not classifiable as a human carcinogen.	
Skin corrosion/irritation	Not expected to be hazardous by OSHA criteria.	
Neurological effects	Not expected to be hazardous by OSHA criteria.	
Further information	This product has no known adverse effect on human health.	

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
Ethylene Glycol (107-21-1)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 8050 mg/l, 96 hours
Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Persistence and degradability	Not available.	
Bioaccumulation / Accumulation		
Bioaccumulative potential		
Octanol/water partition coefficient log Kow		
Ethylene Glycol		-1.36
Partition coefficient		
Ethylene Glycol		-1.36





13. Disposal Considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.20-24). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated.

DEA Essential Chemical Code Number

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Ethylene Glycol (CAS 107-21-1) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Ethylene Glycol (CAS 107-21-1) Listed.

CERCLA (Superfund) reportable quantity

Ethylene Glycol: 5000.0000

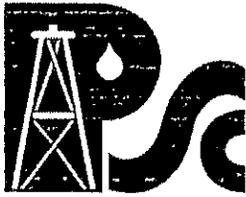
Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No





Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - New Jersey RTK - Substances: Listed substance

Ethylene Glycol (CAS 107-21-1) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Ethylene Glycol (CAS 107-21-1) Listed.

16. Other Information**HMIS® ratings**

Health: 1*
Flammability: 1
Physical hazard: 1
Personal protection:

NFPA ratings

Health: 1
Flammability: 1
Instability: 1

Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE; ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification
Accidental Release Measures: Methods for containment
Physical & Chemical Properties: Multiple Properties
Physical & Chemical Properties: Appearance
Disposal Considerations: Disposal instructions



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