

MATERIAL SAFETY DATA SHEET

P.O. BOX 1603 EUNICE, LA 70535 866-457-0064 or 337-457-0064

CASING SCRUB

SECTION I - IDENTIFICATION

Delta Drilling Products & Services, LLC Manufacturer's Name:

154 Eastpark Drive Physical Address:

Eunice, LA 70535

Emergency Number: 866-457-0064 or 337-457-0064

Trade Name: Casing Scrub

SECTION II - HAZARDOUS COMPONENTS

Component:

(Cas Registry No.)	<u>WT%</u>	ACGIH TLV	OSHA PEL
EGME (111-76-2)	20-30	20 ppm	240 mg/m ³
Terpene (5989-27-5)	10-20	NE	NE
1, 2-Ethanediol (107-21-1)	10-20	100 mg/m ³ Aerosol	NE
Propylene glycol 5-butyl ether			
(57018-52-7)	5-10	NE	NE

SECTION III – PHYSICAL PROPERTIES

Appearance and Odor:----- Amber Liquid with mild odor. Molecular Weight ----- N/A Boiling Point (Degrees Fahrenheit):---->350°F Melting Point (Degrees Fahrenheit):-----N/A Vapor Pressure (mm of Mercury):----- ND Percent Volatile (By Weight):----- Ap 15 pH:-----7.5 – 7.8 Solubility in Water:----- Soluble Evaporation Rate (Butyl Acetate = 1):----- ND

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (Degrees Fahrenheit; PMCC): 185°F

Water fog or fine spray. Dry chemical fire extinguishers, carbon Fire Extinguishing Media:

dioxide

fire extinguishers and alcohol resistant foams are preferred.

Flammable Limits (Percent By Volume): Upper Lower

EGME: 13 10.6

Special Fire Fighting Procedures & Equipment:

Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire

containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire

from protected location or safe distance. Consider the use of unmanned hose holders or

monitor

nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water streams, may spread fire.

Unusual Fire & Explosion Hazards:

Container may rupture from gas generation in a fire situation. Violent steam generation or Eruption may occur upon application of direct water stream to hot liquids.

Hazardous Combustion Products:

During a fire, smoke may contain the combustion products of varying composition which

may

be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide and carbon dioxide

	SECTION V - REACTIVITY DATA
Stability: Stable: X	<u>Unstable:</u>
Conditions to Avoid:	Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
Incompatibility (Materials t	o Avoid): Avoid contact with strong acids, strong oxidizers and strong bases.
Hazardous Decomposition P	Products: Decomposition products depend on upon temperature, air supply and the

presence of other materials. Decomposition products can include and are not limited to: Aldehydes, ketones, and organic acids.

Hazardous Polymerization: Will Occur: Will Not

Occur: X

SECTION VI - HEALTH HAZARD INFORMATION

Exposure From Routine Use: Material may cause severe eye injury or even corneal injury. Skin irritation

can

Occur with brief contact.

Effects of Overexposure: Material may cause severe eye injury or even corneal injury. Skin irritation

can

occur with brief contact. Excessive inhalation of product could cause irritation to respiratory tract.

Product is moderately toxic if ingested. Significant amounts of ingested product may produce metabolic acidosis and subsequent

secondary

effects such a hemolysis, central nervous system and kidney effects.

Probable Routes of Exposure: Eyes and skin

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Remove contact lenses, if present. Immediately flush with large quantities

of

water for at least 15 minutes and obtain medical attention without delay,

preferably from an ophthalmologist.

Remove contaminated clothing and flush skin with plenty of water for **Skin Contact:**

fifteen

minutes. If skin is sticky, use waterless cleaner first, if not, go ahead and

wash

with mild soap and water after flushing. Wash clothing before re-use. Seek

medical attention if ill effects or irritation develop.

Inhalation: Immediately remove to fresh air. Give artificial respiration if breathing has

stopped. If breathing is difficult, oxygen should be administered by qualified

personnel. Get medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING. If spontaneous vomiting does occur,

have

victim lean forward to reduce risk of aspiration. If victim is fully conscious, give one cup or 8 ounces of water. Seek medical attention immediately.

SECTION VII - TOXICITY DATA

This product contains EGME: LD50 (Rat): 470 – 3000 mg/kg. Oral:

This product contains TERPENE: LD50 (Rat): > 5000 mg/kg.

This product contains 1, 2-EHTANEDIOL: LD50 (Rat): 5890 – 13400 mg/kg

Dermal: This product contains EGME: LD50 (Rabbit): 99 – 610 mg/kg.

This product contains 1,2-ETHANEDIOL: NOAEL (Rabbit): >3549 mg/kg

Inhalation: Excessive inhalation of this product may produce symptoms of central nervous system

depression, including headache, dizziness, nausea, loss of balance, drowsiness, visual

disturbances, unconsciousness and even death.

This product contain EGME: LC50 7hr (Rat): 700 ppm

Carcinogenicity: None of the components in this product at concentrations grater than 0.01% are listed by

IARC, NTP, OSHA or ACGIH as a carcinogen.

Ecological: Specific studies on the ecotoxicity or environmental fate of this product have not been

conducted. Commonly available data on certain component(s) indicate that harmful effects

could result from uncontrolled releases to soil, ground water, storm waters, or air.

Appropriate measures should be taken to prevent uncontrolled releases.

This product contains ETHYLENE GLYCOL, MONOBUTYL ETHER:

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested. LC50/96hr – rainbow trout: 1,700 mg/1.

This product contains TERPENE: Terpene is a marine pollutant. This substance is

immiscible

with water, it will evaporate quickly and biodegrade and should not cause long-term effects.

Other Pertinent Data: N/A

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:

Protective Gloves: Chemically resistant.

Eye Protection: Chemical goggles and/or full face shield.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines.

(Specify Type)

When respiratory protection is required for certain operations, use an

approved

air-purifying respirator. The following should be effective types of air-

purifying respirators: Organic vapor cartridge.

Other Protective Equipment: Selection of specific items such as boots, apron or full body suit will depend

on the task.

VENTILATON:

Local Exhaust: Yes

Mechanical (General): If needed, use appropriate ventilation to maintain greater than 15

circulations

per hour.

Special: N/A

SECTION IX - SPILL, LEAK AND DISPOSAL PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Recover as much material as practical. Material can create slippery conditions. Try to work upwind of spill. Wear appropriate breathing apparatus (if applicable) and protective clothing. Soak up balance with sand, dirt, or other absorbent and haul to approved dump. Avoid direct discharge to natural waterways. Refer to all local, state, and federal regulations on spills concerning this material.

Waste Disposal Methods:

Hazard characteristic and regulatory waste stream classification can change with product use. Wastes must be

tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous waste.

Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or

disposal methodologies for spent materials and residues at the time of disposition. Abide by all federal, state, and

local regulations for disposal. Avoid direct discharge to natural waterways.

Clean Water Act Requirements: N/A

Resource Conservation and Recovery Act (RCRA) Requirements: Terpene is a RCRA waste, ID D001.

HAZARD RATINGS

	<u>d Ratings</u>		Product	<u>ID</u>
4 - Ex	treme		Fire2	
3 – Hi	gh	Health 2	R	eactivity0
2-Me	oderate		Special 0	
1 - Sli	ight			
HMIS Hazar	<u>d Index</u>		HMIS R	<u>atings</u>
Hazardous	4 – Severe		Health	2
Materials	3 – Serious		Flammability	2
Identification	2 – Moderate		Reactivity	0
System	1 – Slight		Personal Protecti	on D
	0 – Minimal			
Letter Design	nations Of Personal Protectiv	<u>e Equipment:</u>		
- Safety	Glasses		A	
Safety	Glasses, Gloves		E	3
	Glasses, Gloves, Synthetic Ap			
Face S	Shield, Gloves, Synthetic Apro-	n		D
Safety	Glasses, Gloves, Dust Respira	ator	•••••	E
	Glasses, Glove, Synthetic Apr			
Safety	Glasses, Gloves, Vapor Respi	rator		G
Splash	Goggles, Gloves, Synthetic A	pron, Vapor Respirator		H
Safety	Glasses, Gloves, Combo Dust	and Vapor Respirator		I
Splash	Goggles, Gloves, Synthetic A	pron, Combo Dust and Vapo	or Respirator	J
Airlin	e Hood or Mask, Gloves, Full	Protective suit, Boots		K
Situati	ions Requiring Specialized Har	ndling		X
	SECTION X	- REGULATORY INF	ORMATION	
USDA:	N/A			
FDA:	N/A			
CPSC:	N/A			
TSCA: U.S.C.	Components listed and reported with the provisions outlined in Toxic Substances Control Act, 15			
DOT:	Combustible Liquid, N.O.S.	(Not DOT regulated in 55 g	gal. Drum)	
	Proper Shipping Name:	Combustible Liquid, N.C (Contains EGME), un1993, Not Regulated in 55 Gallo	PG III	ss
	Hazard Class:	Combustible Liquid, N.O.	a	
	mazara Class.	Comoustione Eiquia, 14.0.	S.	

UN 1993

IDENTIFICATION NUMBER:

OTHER PERTINENT INFORMATION: N/A

EPA: SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS): This product contains the following component regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

ComponentCAS No.Weight Percent1,2-Ethanediol107-21-110 - 20%

SARA SECTION 304 CERCLA HAZARDOUS SUBSTANCES: This product contains the following components regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification.

ComponentCAS No.Weight PercentQuantity1,2-Ethanediol107-21-110-20%5000 LBS

SARA SECTION 313 TOXIC CHEMICAL LIST (TCL): The following component is listed on the Section

313 Toxic Chemical List.

<u>Component</u>	CAS No.	Weight Percent
Ethylene glycol monobutyl ether	111-76-2	<20 - 30%
1,2-Ethanediol	107-21-1	10 - 20%

SECTION XI - SPECIAL PRECAUTIONS AND COMMENTS

Precautions to Be Taken In Handling And Storing: Keep product away from heat and open flames. Do not breathe vapor or fumes.

Other Precautions: Keep away from children. Product is for industrial use only.

Registrations/Certifications: N/A

Effective Date: September 16, 1991 (Updated: March 25, 2004)

(Supersedes any previous MSDS.)

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources

Believed to be reliable. It is offered for your considerations, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and local laws and regulations.

HOME MSDS