



# MATERIAL SAFETY DATA SHEET

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

## DEL-LUBE

### SECTION I - IDENTIFICATION

Manufacturer's Name: Delta Drilling Products & Services, LLC  
Physical Address: 154 Eastpark Drive  
Eunice, LA 70535  
Emergency Number: 866-457-0064 or 337-457-0064  
Chemical Family: Amide Ester  
CAS Number: 70321-73-2  
DOT Classification: Non-Hazardous/Non-Regulated  
SARA Hazard: Acute, Chronic (Section 311/312) Title III Section 313 – Contains 0.15-0.18%  
Nickel Salt  
Other Regulatory Requirements: Listed in TSCA Inventory  
Trade Name: Del-Lube

LC<sub>50</sub> at 1.5% by volume in Generic Mud #7 = 1,000,000+ ppm

### SECTION II – INGREDIENTS

Hazardous Component: Nickel Salt (as a fatty acid soap)  
Percent: 0.15-0.18% by Weight

### SECTION III – HEALTH INFORMATION

Inhalation: Unknown  
Ingestion: LD<sub>50</sub>: >10 g/kg (Albino rats) (Stearic, Oleic, Linoleic and Palmitic Acids).  
Ingestion of nickel salts may cause an allergic reaction, nausea, vomiting or diarrhea. High doses of soluble salts induce giddiness and nausea. Large doses of nickel salts cause acute gastrointestinal tract irritation, with vomiting and diarrhea (dogs). Chronic dosing of inorganic nickel salts is well tolerated by rodents.  
Eye Contact: Stearic-Palmitic mixtures produced only mild conjunctival erythema in two of six rabbits at the 24 and 48-hour readings. No other signs of irritation were observed. All signs of irritation had subsided completely at the 72-hour reading. Oleic Acid produced mild conjunctivitis in five of six rabbits. No other irritative signs were observed and all except one rabbit showed no irritative signs at the 72-hour reading. Nickel salts may cause eye irritation or conjunctivitis.  
Skin Contact: Exposure to Stearic-Palmitic Acid mixtures caused no signs of irritation or corrosivity at either intact or abraded sites on albino rabbits. Exposure to Oleic Acid resulted in very slight erythema in six intact and six abraded sites on albino rabbits at the 24-hour reading only. No edema was observed at either

observation. Prolonged or repeated contact of nickel salts with the skin may result in an allergic reaction (dermatitis) in sensitive individuals. Primary irritation index for Stearic, Palmitic and Oleic Acids was 0.0-0.5. 75 mg of Stearic Acid applied intermittently to human skin over a 3-day period resulted in mild irritation. 500 mg of Stearic Acid applied to rabbit skin over a 24-hour period resulted in moderate irritation. 15 mg of Oleic Acid intermittently applied to human skin over a 3-day period resulted in moderate irritation. 500 mg of Oleic Acid applied to rabbit skin in an open draize test resulted in mild irritation.

#### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: No OSHA PEL

#### SECTION V - EMERGENCY & FIRST AID PROCEDURES

**Ingestion:** If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do not give Sodium Bicarbonate, fruit juices or vinegar. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or poison control center. Call physician or poison control center immediately.

**Skin Contact:** Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse.

**Eye Contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes. Do not let victim rub eyes. Get medical attention immediately.

**Inhalation:** Immediately remove victim to fresh air. If victim has stopped breathing give artificial respiration, preferably by mouth-to-mouth. Get medical attention immediately.

#### SECTION VI - PHYSICAL DATA

**Boiling Point:** Approximately 182°C at 1 mm hg pressure  
**Specific Gravity:** 0.89 at 25/20°C  
**Vapor Pressure (mm hg):** Approximately 1 mm hg pressure at 180°C  
**Solubility in Water:** Negligible  
**Appearance & Color:** Black viscous liquid at 25°C

#### SECTION VII - FIRE & EXPLOSION HAZARDS

**Flash Point (Method Used):** 365°F (185°C) C.O.C.

**Special Fire Fighting Procedures & Precautions:** (Individuals should perform only those fire fighting procedures for which they have been trained.) Water or foam may cause frothing when applied to flammable liquids having flash points above 212°F (100°C). The remark is included only as a precaution and does not mean that water or foam should not or could not be used in fighting fires in

such liquids. The frothing may be quite violent and could endanger the life of the fire fighter particularly when solid streams are directed into the hot burning liquid. On the other hand, water spray carefully applied has frequently been used with success in extinguishing such fires by causing the frothing to occur only on the surface and this foaming action blankets and extinguishes the fire (NFPA 325M-1984).

Unusual Fire & Explosion Hazards: Fire fighters should wear self-contained breathing apparatus in the positive-pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

### SECTION VIII - REACTIVITY DATA

Stability:	Generally stable
Hazardous Polymerization:	None likely
Conditions & Materials to Avoid:	Avoid contact with strong oxidizing agents and strong alkalies.
Hazardous Decomposition or Byproducts:	Decomposition may produce Carbon Monoxide and Carbon Dioxide.

### SECTION IX - EMPLOYEE PROTECTION

Measures:	Handle in the presence of adequate ventilation.
Respiratory Protection:	Recommended exposure limits (i.e., OSHA PEL and ACGIH TLV) have not been established for this material. Whether there is a need for respiratory protection under your conditions of handling of this material should be evaluated by a qualified health specialist.
Protective Clothing:	Wear gloves and protective clothing which are impervious to the product for the duration of anticipated exposure if there is potential for prolonged or repeated skin contact.
Eye Protection:	Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

### SECTION X - ENVIRONMENTAL PROTECTION

Environmental Precautions:	Avoid uncontrolled releases of this material where spills are possible. A comprehensive spill response plan should be developed and implemented.
Spill or Leak Precautions:	Wear appropriate protection and protective clothing as described in Section IX.
Contain	spilled material. Transfer to secure containers. Where necessary, collect using absorbent

media. In the event of an uncontrolled release of this material, the user should determine

if the release is reportable under applicable laws and regulations.

Waste Disposal:  
disposed or

All recovered material should be packaged, labeled, transported, and

reclaimed in conformance with applicable laws and regulations and in conformance with

good engineering practices. Avoid land filling of liquids. Reclaim where possible.

## SECTION XI - PRECAUTIONS: HANDLING, STORAGE & USAGE

Store in a cool, dry, well-ventilated area. Store away from heat and moisture, and out of sunlight. Area should be protected from contamination by corrosive fumes. Should be stored away from fire hazard areas.

Storage area should not contain drain to which toxicant could be flushed. Containers should be sealed as tightly as possible. Inspect periodically for deficiencies. A spill control plan should be provided.

Isolate from acids and acid fumes, corrosives, fire hazards, heat and moisture. Container hazardous when emptied. Since emptied containers retain product residue, all hazard precautions described in this MSDS must be observed. Keep in covered containers and do not store near heat or open flames.

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