



## Safety Data Sheet

### MULSPERSE®

#### SECTION 1 – IDENTIFICATION

**PRODUCT NAME:** MULSPERSE®  
**EFFECTIVE DATE:** May 15, 2015  
**CHEMICAL FAMILY:** Drilling Fluid Additive  
**FORMULA:** Proprietary Blend  
**MANUFACTURER:** SUN DRILLING PRODUCTS CORP.  
503 Main Street  
Belle Chasse, LA 70037

**CHEMICAL EMERGENCY – Spill, Leak, Fire, Accident**  
USA/Canada Call 1-800 424-9300 CHEMTREC – Outside USA/Canada Call 1-703-527-3887

#### SECTION 2 – HAZARD IDENTIFICATION

**CLASSIFICATION:** MILD IRRITANT, CATEGORY 2B

**LABELLING:**

**Symbol** – No Symbol

**Signal Word** - Warning

**Hazard Statement** – May Cause Eye and Skin Irritation

**Precautionary Statements** – Wash hands thoroughly after using product to reduce risk of product transfer to eyes, which may cause irritation. Use eye protection, close-fitting safety glasses or goggles, suitable to prevent direct eye contact with product. Persons with pre-existing skin disorders may experience slight irritation.

#### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Propylene Glycol	40-60	57-55-6	ND

**AIHA WEEL:** 8-hr Time-weighted Average (TWA) 10 mg/m<sup>3</sup>

This product is not considered Hazardous per 29cfr 1910.1200.

The criteria for listing components in the composition are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right-to-know and other regulatory information.

#### EMERGENCY OVERVIEW

**APPEARANCE/ODOR:**

Clear Amber Liquid/Mild Odor

**SHORT TERM EXPOSURE**

**GENERAL:** No significant adverse health effects are expected to develop with normal use.



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**EYES:** Slight to moderate irritant.

**SKIN:** Persons with pre-existing skin disorders may experience slight irritation.

**INHALATION:** Persons with pre-existing respiratory disorders may experience slight irritation.

**INGESTION:** No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

**OSHA REGULATED:** Not regulated.

**LISTED CARCINOGEN:** NTP RoC- Not listed. IARC MONOGRAPHS – Not classified.

#### SECTION 4 – FIRST AID MEASURES

**EYE CONTACT** - In case of eye contact, flush immediately with water for a minimum of 15 minutes; seek medical attention if contact irritation persists.

**SKIN CONTACT** – If contact with skin results in irritation, wash thoroughly with soap and water.

**INHALATION** - If affected by inhalation, remove to fresh air.

**INGESTION** - If swallowed, do not induce vomiting; seek immediate medical attention.

#### SECTION 5 – FIRE FIGHTING MEASURES

**FLASHPOINT:** >300°F (>149°C)

**EXTINGUISHING MEDIA:** Water fog or spray, foam, dry chemical or carbon dioxide.

**DECOMPOSITION PRODUCTS:** Smoke and Carbon Oxides.

**LOWER FLAME LIMIT:** ND

**HIGHER FLAME LIMIT:** ND

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known.

**FIRE FIGHTING EQUIPMENT:** Fire Fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**CHEMICAL EMERGENCY NUMBER (24 HOURS):** CHEMTREC

**1-800-424-9300 USA/CANADA**

**1-703-527-3887 Outside USA/Canada**

**SPILL:** In case of spill, if product cannot be collected by liquids vacuum and recycled, absorb with inert material and dispose of in accordance with applicable regulations. Product as sold is a nonhazardous industrial waste. Avoid spillage into drains, surface, and ground water.

**RCRA STATUS:** As sold, product is not a Characteristic or Listed RCRA hazardous waste.

#### SECTION 7 – HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes, skin and clothing. Good housekeeping is essential in reducing possible slipping hazards.



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**HANDLING AND STORAGE:** Store away from strong acids and bases, oxidizers and chemicals reactive with hydroxyl compounds. Provide sufficient general ventilation during and after application. Avoid prolonged or repeated contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking or smoking. If necessary, take first aid action shown in Section 4.

#### SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

##### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting protective equipment.

**EYE PROTECTION:** Safety glasses with side shields are recommended as minimum protection. Chemical goggles or faceshield combined with safety glasses should be worn during transfer operations or when there is a likelihood of misting, splashing or spraying of this material.

**RESPIRATORY PROTECTION:** Not normally needed. Use NIOSH-approved respirator for organic vapors if exposure is unknown or exceeds any permissible limits.

**PROTECTIVE GLOVES:** Wear protective gloves (suggested are neoprene, nitrile rubber) if irritating to skin.

**VENTILATION:** General or Local exhaust.

**LOCAL EXHAUST:** Recommended in circumstances where general ventilation is limited, personal exposure is above recommended limits, or where respiratory irritation occurs.

**Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.**

**VENTILATION NOTES: Provide general or local ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.**

**ACGIH THRESHOLD LIMIT VALUE:** None established for this Product.

**AIHA WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL):** 8-hr Time-weighted Average (TWA) 10 mg/m<sup>3</sup>.

American Industrial Hygiene Association; Emergency Response Planning Guidelines & Workplace Environmental Exposure Levels.

**PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTION: C:** Safety Glasses, Gloves, Protective Apron

**The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.**



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#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/ODOR:</b>	Clear Amber Liquid/Mild Odor
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	9.5 – 10.5
<b>MELTING POINT:</b>	ND
<b>FREEZING POINT:</b>	<32°F
<b>BOILING POINT:</b>	>250F
<b>FLASHPOINT:</b>	>300°F (>149°C)
<b>EVAPORATION RATE:</b>	NA
<b>FLAMMABILITY (SOLID, GAS):</b>	NA
<b>UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b>	ND
<b>VAPOR PRESSURE:</b>	760 mm
<b>VAPOR DENSITY (AIR = 1):</b>	>1
<b>DENSITY</b>	7.5 lbs/gallon (900 kg/m <sup>3</sup> )
<b>SPECIFIC GRAVITY</b>	~1.02
<b>SOLUBILITY IN WATER:</b>	Soluble
<b>PARTITION COEFFICIENT: N-OCTANOL/WATER</b>	
<b>AUTO-IGNITION TEMPERATURE:</b>	ND
<b>DECOMPOSITION TEMPERATURE:</b>	ND
<b>VISCOSITY, SUS@100°F:</b>	ND

#### SECTION 10 – STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	This material is chemically stable.
<b>CHEMICAL STABILITY:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>HAZARDOUS POLYMERIZATION:</b>	Will Not Occur.
<b>CONDITIONS TO AVOID:</b>	None known.
<b>INCOMPATIBLE MATERIALS:</b>	Store away from strong acids and bases, oxidizers and chemicals reactive with hydroxyl compounds.

#### SECTION 11 – TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** There is no evidence associating single exposure to the substance with a consistent and identifiable toxic effect.

**SKIN CORROSION/IRRITATION:** Persons with pre-existing skin disorders may experience slight irritation.

**SERIOUS EYE DAMAGE/IRRITATION:** May be irritating to eyes on direct contact.

**RESPIRATORY OR SKIN SENSITIZATION:** None expected.

**GERM CELL MUTAGENICITY:** ND

**CARCINOGENICITY:** ND

**REPRODUCTIVE TOXICITY:** ND

**STOT\*-SINGLE EXPOSURE:** There is no evidence associating single exposure to the substance with a consistent and identifiable toxic effect.



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**STOT\*- REPEATED EXPOSURE:** There is no evidence associating repeated exposure to the substance with a consistent and identifiable toxic effect.

**ASPIRATION HAZARD:** ND

\*Specific Target Organ Toxicity

#### SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

#### SECTION 13 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Follow applicable governing regulations for disposal. Product as sold is not a Listed or Characteristic waste per RCRA.

#### SECTION 14 – TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations to properly classify your shipment for transportation.

<b>UN PROPER SHIPPING NAME:</b>	DOT NON-REGULATED – MULSPERSE®
<b>TRANSPORT HAZARD CLASS AND LABEL:</b>	NON-REGULATED
<b>UN/NA NUMBER:</b>	N/A
<b>HARMONIZED CODE/TARIFF CODE</b>	3402.13.0000
<b>PACKAGING SIZE:</b>	55-Gallon drums and Rig storage bulk containers, 275-Gallon (6.5 bbl)
<b>REPORTABLE QUANTITY:</b>	This material does not contain any chemicals with CERCLA Reportable Quantities.

#### SECTION 15 – REGULATORY INFORMATION

**SARA 311 CATEGORIES:**

<b>EPA ACUTE:</b>	No
<b>EPA CHRONIC:</b>	No
<b>EPA IGNITABILITY:</b>	No
<b>EPA REACTIVITY:</b>	No
<b>EPA SUDDEN RELEASE OF PRESSURE:</b>	No
<b>CERCLA RQ VALUE:</b>	None under CERCLA but check individual State Regulations.
<b>SARA TPQ:</b>	None
<b>SARA RQ:</b>	None
<b>EPA HAZARD WASTE#:</b>	None
<b>CLEAN AIR:</b>	N/A
<b>CLEAN WATER:</b>	N/A
<b>SARA SECTION 313:</b>	No
<b>NFPA HEALTH:</b>	1



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<b>NFPA FLAMMABILITY:</b>	1
<b>NFPA REACTIVITY:</b>	0
<b>DEA Chemical Trafficking Act:</b>	N/A
<b>TSCA STATUS:</b>	All ingredients in this product are either listed on the U.S.TSCA Inventory, or are not regulated under TSCA.
<b>DSL STATUS:</b>	All components are either on the DSL, or are exempt from DSL listing requirements.

#### SECTION 16 – OTHER INFORMATION

**FOOT NOTES: NA NOT APPLICABLE**  
> = GREATER THAN OR EQUAL TO

**ND – NO DATA AVAILABLE**  
< = LESS THAN OR EQUAL TO

**REVISION STATEMENT:** Changes have been made throughout this Safety Data Sheet. Please read the entire document.

**DISCLAIMER:**

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