



**Safety Data Sheet**  
**C-MUL®**

**SECTION 1 – IDENTIFICATION**

**PRODUCT NAME:** C-MUL®  
**EFFECTIVE DATE:** May 29, 2018  
**CHEMICAL FAMILY:** Drilling Fluid Additive

**MANUFACTURER:** SUN DRILLING PRODUCTS CORP.  
503 Main Street  
Belle Chasse, LA 70037

**CANADIAN IMPORTER :** SUN DRILLING PRODUCTS CORP.  
#102 6660 Taylor Drive  
Red Deer, AB TYP IY3  
(403)341-5046 (for 24-hr Emergency call Chemtrec)

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

**SECTION 2 – HAZARD IDENTIFICATION**

**CLASSIFICATION:** CATEGORY 1: ASPIRATION HAZARD  
CATEGORY 1A: SKIN SENSITIZATION  
CATEGORY 2: SERIOUS EYE DAMAGE, IRRITATION  
CATEGORY 4 ACUTE TOXICITY (INHALATION)

**LABELLING:**



**Signal Word - DANGER**

**Hazard statements**

H304 - May be fatal if swallowed and enters airways  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled

**Precautionary statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P331 - Do NOT induce vomiting  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water



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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/ container to an approved waste disposal plant

#### **Hazards not otherwise classified**

None known

**Unknown acute toxicity** <1% of the mixture consists of ingredient(s) of unknown toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
1-Dodecene, dimer	75-95	62132-67-6	
Distillates (petroleum), hydrotreated heavy naphthenic	2.0-8.0	64742-52-5	
Fatty acid amide	2.0-8.0	Proprietary	
Fatty acids, tall-oil, reaction products with Diethylenetriamine	.08-0.4	61790-69-0	

**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.**

### SECTION 4 – FIRST AID MEASURES

**EYE CONTACT** - In case of eye contact, flush immediately with water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Seek medical attention if irritation persists.

**SKIN CONTACT** –Wash contaminated skin thoroughly with soap and water, and remove contaminated clothing and shoes. Get medical attention if symptoms occur. Clean clothing and shoes thoroughly before reuse.

**INHALATION** - If respiratory irritation develops or if breathing becomes difficult, remove to fresh air. Get medical attention if adverse health effects persist or are severe.

**INGESTION** - If swallowed, do NOT induce vomiting. Aspiration hazard if swallowed, can enter lungs and cause damage. Wash mouth out with water, seek immediate medical attention.



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### SECTION 5 – FIRE FIGHTING MEASURES

**FLASHPOINT:** >201°F (>94°C)

**EXTINGUISHING MEDIA:** Use dry chemical, carbon dioxide, or foam. Water fog can be used but water jet is not recommended.

**DECOMPOSITION PRODUCTS:** Smoke may contain carbon dioxide, carbon monoxide, nitrogen oxides, ammonia.

**LOWER FLAME LIMIT:** NA

**HIGHER FLAME LIMIT:** NA

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Excessive ambient temperature may cause a pressure rise in sealed containers; cool containers using water spray. Keep unnecessary people away.

**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

**SPILL:** In case of spill, evacuate and ventilate surrounding area. Keep unnecessary and unprotected personnel away from area of spill. Cleanup personnel should wear suitable personal protective equipment and take precautions against slipping on product. If product cannot be collected by liquids vacuum and recycled, absorb with inert non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite) and dispose of in accordance with applicable regulations. Product as sold would be a nonhazardous industrial waste. Avoid spillage into all drains, soil surfaces, and ground water. Spills causing environmental pollution must be reported to the relevant authorities.

**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 adequate ventilation, avoiding unnecessary exposure, using appropriate personal protective equipment when necessary, and prompt removal of material from eyes, skin and clothing. Good housekeeping is essential in reducing slipping hazards; avoid walking through spilled material. Do not reuse container.

**HANDLING AND STORAGE:** Store away from oxidizers, in original container protected from sunlight in dry, cool, and well-ventilated area. 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), job activities, and other substances in the work place when designing engineering controls and selecting protective equipment. There is an occupational exposure limit (OEL) for oil mists at the workplace of 5 mg/m<sup>3</sup> based on the recommendation of the American Congress of Governmental Hygienists (ACGIH) that should be followed.



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**EYE PROTECTION:** Chemical goggles are recommended. Goggles, or at a minimum faceshields in combination 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 causes discomfort.

**PROTECTIVE GLOVES:** Wear protective gloves (suggested are PVC, neoprene, nitrile rubber) if irritating to skin. Check gloves frequently during prolonged use for breakthrough.

**VENTILATION:** General or Local exhaust.

**LOCAL EXHAUST:** Recommended in circumstances where general ventilation is limited, 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. 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.

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

**PROTECTIVE EQUIPMENT:** Splash goggles, gloves, 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.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR:	Gold to Amber Liquid/Oily Odor
ODOR THRESHOLD:	ND
pH:	ND
MELTING POINT:	350°F
FREEZING POINT:	<0°F
BOILING POINT:	ND
FLASHPOINT:	>201°F (>94°C)
EVAPORATION RATE:	NA
FLAMMABILITY (SOLID, GAS):	NA
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	NA
VAPOR PRESSURE:	ND
VAPOR DENSITY (AIR = 1):	NA
DENSITY	7.5 lbs/gallon (900 kg/m <sup>3</sup> )
SPECIFIC GRAVITY	0.80 g/cc
SOLUBILITY IN WATER:	Water Dispersible
PARTITION COEFFICIENT: N-OCTANOL/WATER	
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY, SUS@100°F:	NA



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**SECTION 10 – STABILITY AND REACTIVITY**

**REACTIVITY:** This material is chemically stable.

**CHEMICAL STABILITY:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**HAZARDOUS POLYMERIZATION:** Under normal conditions of storage and use, hazardous polymerizations will not occur.

**CONDITIONS TO AVOID:** Keep away from heat and direct sunlight. Recommended storage temperature should not exceed 122° F (50° C). Do not freeze.

**INCOMPATIBLE MATERIALS:** Avoid contact with oxidizing materials.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:**

**INGESTION:** May be fatal if swallowed and enters airways. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**INHALATION:** Vapors may irritate throat and respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Prolonged overexposure through inhalation can be harmful to health.

**SKIN CORROSION/IRRITATION:** Persons with pre-existing skin disorders may experience irritation. Repeated exposure may cause skin dryness and/or cracking. Direct contact with product may cause an allergic skin reaction.

**SERIOUS EYE DAMAGE/IRRITATION:** May cause serious eye irritation. May cause redness, itching, and pain on direct contact.

**RESPIRATORY OR SKIN SENSITIZATION:** May cause skin sensitization.

**MUTAGENICITY:** ND; no component of this product at levels >0.1% is classified by established regulatory criteria as a mutagen.

**CARCINOGENICITY:** ND; no component of this product at levels >0.1% is classified by ACGIH, IARC, or the European Commission as a carcinogen.

**REPRODUCTIVE TOXICITY:** ND; no component of this product at levels >0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

**ASPIRATION HAZARD:** May be fatal if swallowed and enters airways.

**SECTION 12 – ECOLOGICAL INFORMATION**

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Distillates (petroleum), hydrotreated heavy naphthenic	>5000 mg/L LC50 Oncorhynchus mykiss 96 hr	No information available	> 1000 mg/L EC50 Daphnia magna 48 hr
Fatty acid amide	No information available	No information available	No information available
Fatty acids, tall-oil, reaction products with diethylenetriamine	No information available	No information available	No information available

**PERSISTENCE & DEGRADABILITY:** ND

**BIOACCUMULATIVE POTENTIAL:** ND

**MOBILITY IN SOIL:** This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.



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**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>	NON-REGULATED
<b>TRANSPORT HAZARD CLASS AND LABEL:</b>	N/A
<b>UN/NA NUMBER:</b>	N/A
<b>HARMONIZED CODE/TARIFF CODE</b>	3902-90-0050
<b>PACKAGING SIZE:</b>	55-gallon drums; 275-gallon disposable tote tanks; 550-gallon rig storage bulk containers
<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>	Yes
<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>	NA
<b>SARA SECTION 313:</b>	No
<b>EPA HAZARD WASTE#:</b>	None
<b>CLEAN AIR:</b>	N/A
<b>CLEAN WATER:</b>	N/A
<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, listed in NDSL, or are exempt from DSL listing requirements.



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**SECTION 16 – OTHER INFORMATION**

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

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

**REVISION DATE:** May 29, 2018

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

**DISCLAIMER:**

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