



Safety Data Sheet
LIQUI-BEADS®

SECTION 1 – IDENTIFICATION

PRODUCT NAME: LIQUI-BEADS®
EFFECTIVE DATE: March 31, 2023
CHEMICAL FAMILY: Drilling Fluid Additive
FORMULA: Proprietary Mixture
MANUFACTURER: SUN DRILLING PRODUCTS CORP.
d/b/a SUN SPECIALTY PRODUCTS
503 Main Street
Belle Chasse, LA 70037

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

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

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION: ASPIRATION HAZARD, CATEGORY 1
SKIN CORROSION/IRRITATION, CATEGORY 2
EYE DAMAGE/IRRITATION, CATEGORY 2A
ACUTE TOXICITY/INHALATION CATEGORY 4

LABELLING:
Symbol(s) –



Signal Word – DANGER
Hazard Statements

- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- Harmful if inhaled.



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Precautionary Statements

- IF SWALLOWED (aspirated): Immediately call a POISON CENTER or doctor/physician. Do **not** induce vomiting.
- IF ON SKIN: wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and decontaminate it before reuse.
- IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
1-Decene, Dimer, Hydrogenated	>90	68649-11-6	NE
Copolymer Beads	5-10	9052-95-3	
Tall Oil Fatty Acids	3-7	61790-12-3	NE
Tall Oil Hydroxyethyl Imidazoline	0.5-3	61791-39-7	NE
Alicyclic Amide	0.5-3	NE	NE

There is an occupational exposure limit (OEL) for oil mists at the workplace of 5 mg/m³ based on the recommendation of the American Congress of Governmental Hygienists (ACGIH).

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 15-20 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. If necessary, call a poison center or physician.

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



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SECTION 5 – FIRE FIGHTING MEASURES

FLASHPOINT: >300°F

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, or foam. Water fog can be used but water jet is not recommended, as it may scatter and spread the fire.

DECOMPOSITION PRODUCTS: Fire may generate carbon monoxide, carbon dioxide, and nitrogen oxides.

LOWER FLAME LIMIT: ND

HIGHER FLAME LIMIT: ND

UNUSUAL FIRE AND EXPLOSION HAZARDS: Excessive ambient temperature may cause a pressure rise in sealed containers; with risk of bursting. Cool containers with 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): 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 is 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. Discharges or spills into or leading to surface waters which cause a sheen must be reported to the National Response Center, (800) 424-8802.

RCRA STATUS: As sold, product is not a 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.

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 workplace when designing engineering controls and selecting protective equipment. There is an occupational



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exposure limit (OEL) for oil mists at the workplace of 5 mg/m³ based on the recommendation of the American Congress of Governmental Hygienists (ACGIH).

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: As Oil Mist, 5 mg/m³.

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/Mild Oily Odor
ODOR THRESHOLD:	ND
pH:	NA
MELTING POINT:	350°F
FREEZING POINT:	<-20°F (<28°C)
BOILING POINT:	>450°F (>232°C)
FLASHPOINT:	>300°F (>149°C)
EVAPORATION RATE:	NA
FLAMMABILITY (SOLID, GAS):	NA
UPPER/LOWER FLAMMABILITY	
OR EXPLOSIVE LIMITS:	NA
VAPOR PRESSURE:	ND
VAPOR DENSITY (AIR = 1):	NA
LBS/GAL	6.9
SPECIFIC GRAVITY	.82
SOLUBILITY IN WATER:	Water Dispersible
PARTITION COEFFICIENT:	ND
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND



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VISCOSITY, SUS@100°F: NA

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.
INHALATION: Vapors may irritate throat and respiratory system. Prolonged overexposure by inhalation may be harmful.
SKIN CORROSION/IRRITATION: Persons with pre-existing skin disorders may experience irritation. Repeated exposure may cause skin dryness and/or cracking.
SERIOUS EYE DAMAGE/IRRITATION: May cause temporary eye irritation. May cause redness, itching, and pain on direct contact.
RESPIRATORY OR SKIN SENSITIZATION: Not expected to cause skin sensitization.
MUTAGENICITY: ND; no evidence of mutagenic properties.
CARCINOGENICITY: ND; no evidence of carcinogenic properties.
REPRODUCTIVE TOXICITY: ND; no evidence of toxicity to reproduction.
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
Fatty acids, tall oil	LL50>10000 mg/l, 96 hr; Species: Zebra danio (Danio rerio)	EL50>=1000 mg/L, 72 hr growth rate; OECD 201. Green algae (Selenastrum capricornutum)	EL50>1000 mg/l; Exposure time 48 hr. OECD 202. Species: Daphnia magna (water flea)
1-Decene, Dimer, Hydrogenated	LL50>1000 mg/l; Exposure time 96 hr; Species: Oncorhynchus mykiss (rainbow trout), Semi-static test Test substance: yes. The product has low solubility in the test medium. An aqueous dispersion was tested.	EL50>1000 mg/l; Exposure time 72 hr. Species: Scenedesmus capricornutum (fresh water algae); Static test Test substance: yes. The product has low solubility in the test medium. An aqueous dispersion was tested.	EL50:>1000 mg/l; Exposure time 48 hr. Species: Daphnia magna (water flea); Static test Test substance: yes. The product has low solubility in the test medium. An aqueous dispersion was tested.



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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.

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.

UN PROPER SHIPPING NAME:	NON-REGULATED
TRANSPORT HAZARD CLASS AND LABEL:	N/A
UN/NA NUMBER:	N/A
PACKAGING SIZE:	5-gallon pails; 55-gallon drums; 275-gallon totes; 550-gallon totes
REPORTABLE QUANTITY:	This material does not contain any chemicals with CERCLA Reportable Quantities.

SECTION 15 – REGULATORY INFORMATION

SARA 311 CATEGORIES:

EPA ACUTE:	No
EPA CHRONIC:	No
EPA IGNITABILITY:	No
EPA REACTIVITY:	No
EPA SUDDEN RELEASE OF PRESSURE:	No
CERCLA RQ VALUE:	None under CERCLA but check individual State Regulations.
SARA TPQ:	None
SARA RQ:	NA
SARA SECTION 313:	No
EPA HAZARD WASTE#:	None
CLEAN AIR:	N/A
CLEAN WATER:	N/A
DEA Chemical Trafficking Act:	N/A
TSCA STATUS:	All ingredients in this product are either listed on the U.S. TSCA Inventory or are not regulated under TSCA.
DSL STATUS:	Some components are not DSL listed.



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SECTION 16 – OTHER INFORMATION

FOOT NOTES: N/A NOT APPLICABLE
> = GREATER THAN OR EQUAL TO

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

REVISION DATE: March 31, 2023

Replaces: October 16, 2019

REVISION STATEMENT: Changes have been made throughout this Safety Data Sheet based on data provided by raw material suppliers. Please read the entire document.

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this SDS will make their own determination as to its suitability for their intended purpose prior to use. Since the product is within the exclusive control of the user, it is the user’s obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal Regulations concerning the Product.

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