



SAFETY DATA SHEET

1. Identification

Product Identifier	HDD Lube
Recommended use	Drilling fluid additive
Recommended restrictions	None known
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	
Company name	DCS Fluid Solutions
Address	PO Box 1027, Graham, TX 76450
Phone	940-521-0500
Website	www.dcsmud.com
Email	dcsfluids@sbcglobal.net / randy@dcsmud.com
Emergency phone number	940-521-0500

2. Hazard(s) Identification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified
OSHA defined hazards	Not classified
Label elements	
Hazard symbol	None
Signal word	None
Hazard statement	The substance does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known
Supplemental information	None

3. Composition/Information of Ingredients

Mixtures

Chemical Name	Common name and synonyms	CAS Number	%
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.	Soybean oil/ester blend	8001-22-7	100

4. First Aid Measures

Inhalation

Move victim to fresh air. Provide respiratory support, if necessary. Get medical attention if cough or other respiratory symptoms develop.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.

Ingestion

If swallowed, DO NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. If symptoms develop, seek medical attention.

Most important symptoms, effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media

Water. Water spray. Foam. Dry chemicals. Carbon dioxide (CO₂).

Unsuitable extinguishing media

None known. Do not use straight water streams to avoid spreading fire.

Specific hazards arising from the chemical Special protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed. Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam must be applied carefully to avoid frothing and from as far a distance as possible. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Avoid excessive water spray application. Keep run-off water out of sewers and water sources.

Firefighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods

This product is not a flammable liquid per the OSHA Hazard Communication Standard, but may ignite and/or burn at temperatures exceeding the flash point. Spontaneous combustion may occur under high temperature, closed conditions if material is absorbed in various fiber matrices and oxygen is present (e.g., oily rags). For additional fire-related information, see NFPA 30 or the North American Emergency Response Guide 128.

General fire hazards

Combustible. No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or

Environmental precautions

sewer. Notify local health and pollution control agencies, if appropriate

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for cleaning Recover large spills into approved containers. Use suitable absorbent materials such as up: vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Conditions for safe storage, including any incompatibilities

8. Exposure Controls/Personal Protection

Occupational exposure limits

Name	ACGIH TLV	OSHA PELs:	OSHA - Vacated PELs	NIOSH IDLH
Soybean Oil/ester blend 8001-22-7	-	TWA: 5 mg/m ³ Vegetable oil mist, respirable TWA: 15 mg/m ³ oil mist, total	TWA: 5 mg/m ³ mist, respirable fraction TW A: 15 mg/m ³ mist,	-

Personal protective equipment

Eye protection:

Use goggles or face-shield if the potential for splashing exists.

Skin and body protection:

Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.

Respiratory protection:

Breathing apparatus needed only when aerosol or mist is formed Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing

9. Physical and Chemical Properties

Physical State	Liquid
Appearance	amber to dark amber liquid
Color	amber to dark amber
Odor	Slight vegetable oil.
Odor Threshold	No available data.
Property	Values (Method)
Melting Point / Freezing Point	- 20 °C / -4 °F
Initial Boiling Point / Boiling Range	No available data.
Flash Point	- 321 °C / 610 °F

Evaporation Rate	No data available
Flammability (solid gas)	
Flammability Limit in Air (%)	
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor Pressure	<1mm Hg@@ 72°C
Vapor Density	No data available
Specific Gravity / Relative Density	-0.9
Water Solubility	Insoluble in water
Solubility in other solvents	No data available
Partition Coefficient	No data available
Decomposition temperature	
pH	Not applicable
Auto ignition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	No data available
Softening Point	No data available
VOC Content (%)	No data available
Density	No data available
Bulk Density	No data available

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10. Stability and Reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Contact with incompatible materials, excessive heat open flame

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

11. Toxicological Information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not available

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or

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Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects

frequent spills can have a harmful or damaging effect on the environment.

Expected to be inherently biodegradable.

No data available.

Insoluble and floats on water

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposable Considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products

Long-term storage may result in decomposition of the oil and could result in a rancid odor

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

15. Regulatory Information

US Federal regulations

This product and/or components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate Hazard: No

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SARA 302 Extremely hazardous substance	Delayed Hazard: No
SARA 311/312 Hazardous chemical	Fire Hazard: No
SARA 313 (TRI reporting)	Pressure Hazard: No
Other federal regulations	Reactivity Hazard: No
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not listed
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	No
Safe Drinking Water Act (SDWA)	Not regulated
US state regulations	
US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)	Not regulated
US Massachusetts RTK – Substance List	Not listed
US New Jersey Worker and Community Right-to-Know Act	MINERAL OIL (CAS 8042-47-5)
US Pennsylvania Worker and Community Right-to-Know Law	Not listed
US Rhode Island RTK	MINERAL OIL (CAS 8042-47-5)
US California Proposition 65	Not regulated.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Soybean Oil/ester blend

Louisiana Right- To-Know:	Not
California Proposition 65:	Listed.
New Jersey Right-To-Know:	Not
Pennsylvania Right- To-Know:	Listed.
Massachusetts Right-To Know:	Not
Florida Substance List:	Listed
Rhode Island Right-To-Know:	Present
Michigan Critical Materials Register List:	Not
Massachusetts Extraordinarily Hazardous Substances:	Listed.
California - Regulated Carcinogens:	Not
Pennsylvania RTK - Special Hazardous Substances:	Listed.
New Jersey - Special Hazardous Substances:	Not
New Jersey - Environmental Hazardous Substances List:	Listed.
Illinois - Toxic Air Contaminants:	Not
New York - Reporting of Releases Part 597 -	Listed.
List of Hazardous Substances:	Not
	Listed.

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Canada DSUNDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Canadian Regulatory Information: "This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Soybean oil/ ester oil blend	Uncontrolled product according to WHMIS classification criteria	-

16. Other Information, Including Date of Preparation or Last Revision

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Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. All information and recommendations concerning this product is based on tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity and suitability for the user's own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular conditions exist or because of applicable laws or government regulations.

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