



SAFETY DATA SHEET

HDD Lube

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HDD Lube
Other means of identification : Not applicable.
Recommended use : Drilling Lubricant.
Restrictions on use : No data available.
Company : Right Turn Supply, LLC
P.O. Box 132016
Spring, TX 77393
Emergency telephone : (800) 424-9300 (24 Hours) CHEMTREC
number
Issuing date : 02/15/2018

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

OSHA/HCS Status : Not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance mixture : Not Classified.

GHS Label element

Hazard pictograms : None

Signal Word : No signal word.

Hazard Statements : No known significant effects or critical hazards.

Precautionary Statements : **Prevention:** Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Substance

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Ingredient name	%	CAS number
Fatty acids, tall-oil	100	61790-12-3

Any concentration shown as a range is to protect the confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

Section: 4. FIRST AID MEASURES

- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- In case of skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur
- If swallowed : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : In a fire or if heated, a pressure increase will occur and the container may burst.

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- Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide
carbon monoxide
- Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Specific extinguishing methods : No data available.
- Remarks : Oils in contact with porous materials including rags, trash, and piping insulation, when stored in a confined space may spontaneously combust.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods and materials for containment and cleaning up : **SMALL SPILL:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
LARGE SPILL: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Put on appropriate personal protective equipment (see Section 8).
- Conditions for safe storage : Store between the following temperatures: 5 to 50°C (41 to 122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in

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unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Suitable material : No data available.

Unsuitable material : No data available.

Advice on general Hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

None

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

Personal protective equipment

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields. Recommended: safety glasses with side-shields or splash goggles.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): Synthetic or rubber gloves or natural rubber (latex)

Skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Yellow
Odour	: Bland
Flash point	: Closed cup: 199°C (390.2°F) Open cup: 194°C (381.2°F)
pH	: Not applicable.
Odour Threshold	: no data available
Melting point/freezing point	: >10°C (>50°F)
Initial boiling point and boiling range	: >215°C (>419°F)
Evaporation rate	: <1 (ether (anhydrous) = 1)
Flammability (solid, gas)	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Oils in contact with porous materials including rags, trash, and piping insulation, when stored in a confined space may spontaneously combust.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: >1 [Air = 1]
Relative density	: 0.894 to 0.906 [Water = 1]
Density	: 0.894 to 0.906 [Water = 1]
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: 4.7
Auto-ignition temperature	: no data available
Thermal decomposition temperature	: no data available
Viscosity, dynamic	: Dynamic (room temperature): 28 mPa·s (28 cP)
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: no data available

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Section: 10. STABILITY AND REACTIVITY

- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid : No specific data.
- Incompatible materials : Strong oxidizing agents
- Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Fatty acids, tall-oil	LD50 Oral	Rat	>10000 mg/kg	-

Potential Health Effects

- Eyes : No known significant effects or critical hazards.
- Skin : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.
- Inhalation : No known significant effects or critical hazards.
- Chronic Exposure : No data available.

Experience with human exposure

- Eye contact : No data available.
- Skin contact : No data available.
- Ingestion : No data available.
- Inhalation : No data available.

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Toxicity

Product

Acute oral toxicity : No data available.
 Acute inhalation toxicity : No data available.
 Acute dermal toxicity : No data available.
 Skin corrosion/irritation : No data available.
 Serious eye damage/eye irritation : No data available.
 Respiratory or skin sensitization : No data available.

Carcinogenicity

IARC : No data available.
 OSHA : No data available.
 NTP : No data available.

Reproductive effects : No data available.
 Germ cell mutagenicity : No data available.
 Teratogenicity : No data available.
 STOT - single exposure : No data available.
 STOT - repeated exposure : No data available.
 Aspiration toxicity : No data available.

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty acids, tall-oil	EC50 854.9 mg/l	Algae	72 hours
	EC50 >1000 mg/l	Daphnia	48 hours
	EC50 >1000 mg/l	Micro-organism	3 hours
	LC50 >1000 mg/l	Fish	96 hours
	NOEC >1000 mg/l	Micro-organism	3 hours
	NOEL 500 mg/l	Algae	48 hours
	NOEL 750 mg/l	Algae	72 hours
	NOEL 1000 mg/l	Daphnia	48 hours
	NOEL 1000 mg/l	Fish	96 hours

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Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty acids, tall-oil	-	80.03 % - Readily - 28 days	-	-

Conclusion/Summary : BOD value:188000 mg/L [28 days]
BOD value: 2.04 g O₂/g
[28 days] COD value:
2.549 g O₂/g

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, tall-oil	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Fatty acids, tall-oil	4.7	-	high

Mobility

No data available.

Other information

No known significant effects or critical hazards.

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

The presence of an RQ component (Reportable Quantity for U.S. DOT) in this product causes it to be regulated with an additional description of RQ for road, or as Environmentally hazardous for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Land transport (DOT)

Not Regulated

Air transport (IATA)

Not Regulated

Sea transport (IMDG/IMO)

Not Regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section: 15. REGULATORY INFORMATION

US Federal regulations : **TSCA 8(a) CDR Exempt/ Partial exemption:** Not determined
United States Inventory (TSCA 8b): This material is listed or exempted

Clean Air Act section 112 (b) Hazardous Air Pollutants (HPAs) : Not Listed.

Clean Air Act Section 602 Class I Substances : Not Listed.

Clean Air Act Section 602 Class II Substances : Not Listed.

DEA List I Chemicals (Precursor Chemicals) : Not Listed.

DEA List II Chemicals (Essential Chemicals) : Not Listed.

SARA 302-304 : No products found.

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Composition/information on ingredients.

SARA 304 RQ : Not applicable.

SARA 311/312 : Not applicable.

STATE REGULATIONS:

Massachusetts : Material not listed.

New York : Material not listed.

New Jersey : Material not listed.

Pennsylvania : Material not listed.

California Prop. 65 : Material not listed.

INTERNATIONAL REGULATIONS:

Chemical Weapon Convention List Schedules I, II & III Chemicals : Material not listed.

Montreal Protocol (Annexes A, B, C, E) : Material not listed.

Stockholm Convention on Persistent Organic Pollutants : Material not listed.

Rotterdam Convention on Prior Informed Consent (PIC) : Material not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals : Material not listed.

INTERNATIONAL LISTS

Australia : Material not listed.

Canada : Material not listed.

China : Material not listed.

Japan : **Japan inventory (ENCS):** This material is listed or exempted.
Japan inventory (ISHL): Not determined.

New Zealand : Material not listed.

Philippines : Material not listed.

Republic of Korea : Material not listed.

Taiwan : Material not listed.

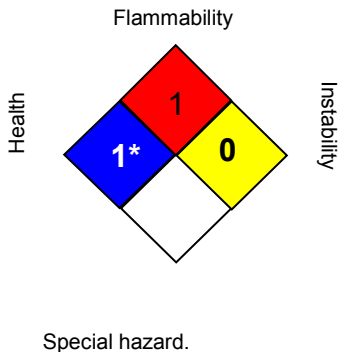
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United States : Material not listed.

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 02/15/18
Version Number : 1.0

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 a 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.