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SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): HD W/B Grease
Product Code(s): Not available.
Uses: A high viscosity lithium complex EP grease.
Company: Amalie Oil Company
Address: 1601 McCloskey Blvd; Tampa FL 33605; USA
Telephone Number: (813) 248-1988 Fax Number: (813) 248-1488
Emergency Telephone Number: For Hazardous Materials [or Dangerous Goods] Incident (24 hours/day)
ChemTel Inc. (800) 255-3924; +1 (813) 248-0585
Date Issued: October 26, 2018 Date Revised: October 26, 2018

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Signal Word: None.

GHS Classification: Not classified as hazardous

GHS Hazard Statements: None.

GHS Precautionary Statements:	<u>Prevention:</u> None.	<u>Response:</u> None.
	<u>Storage:</u> None.	<u>Disposal:</u> None.

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately < 13% of this mixture consists of ingredient(s) of unknown acute toxicity.
Approximately < 13% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	50.0 - 70.0%
	<i>Classification: Carc. 1B: H350 (*) Carc. 1B; H350: C ≥ 3.0 % DMSO Repr. 2; H361d: C ≥ 3.0 % DMSO Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm²/s (40°C)</i>		
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	265-157-1	20.0 - 40.0%
	<i>Classification: Carc. 1B: H350 (*) Carc. 1B; H350: C ≥ 3.0 % DMSO Repr. 2; H361d: C ≥ 3.0 % DMSO Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm²/s (40°C)</i>		

Note (*): Components are highly refined and this hazard does not apply.

Other components are either non-hazardous or do not significantly contribute to the hazards of the product.

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.
First Aid - Skin:	In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse.
First Aid - Ingestion:	If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
First Aid - Inhalation:	If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Important Symptoms / Effects – Acute and Delayed:	Mild tissue inflammation, nausea.
Advice to Physician:	Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:	Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
Specific Hazards:	This product is not flammable, but will burn in a fire. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.
Protective equipment and procedures for fire-fighters.	Wear full protective clothing and self-contained breathing apparatus.
Additional Advice:	None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Small spills: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water/soap or an appropriate solvent, as this product is not appreciably soluble in water alone. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.
Personal Precautions:	Wear suitable protective clothing and equipment.
Environmental Precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling:	Wear appropriate personal protection (See Section 8) when handling this material. The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors, mists or sprays. Use in a well-ventilated area.
Storage:	Keep container(s) tightly closed. Use and store this material at room temperature away from sources of ignition, heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10).
Additional Advice:	Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Distillates (petroleum), hydrotreated heavy naphthenic:	(as petroleum distillates – naphtha) NIOSH REL: 350 mg/m ³ TWA. NIOSH REL: 1800 mg/m ³ STEL. OSHA PEL: 500 ppm (2000 mg/m ³). (as oil mist) NIOSH REL: 5 mg/m ³ TWA. NIOSH STEL: 10 mg/m ³ TWA. OSHA PEL: 5 mg/m ³ TWA.
Petroleum distillates, hydrotreated heavy paraffinic:	(as petroleum distillates – naphtha) NIOSH REL: 350 mg/m ³ TWA. NIOSH REL: 1800 mg/m ³ STEL. OSHA PEL: 500 ppm (2000 mg/m ³). (as oil mist) NIOSH REL: 5 mg/m ³ TWA. NIOSH STEL: 10 mg/m ³ TWA. OSHA PEL: 5 mg/m ³ TWA.
Zinc dialkyl dithiophosphate:	None.
Engineering Control Measures:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection:	A NIOSH certified self-contained breathing apparatus or air purifying respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

	manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Semi-solid
Color:	Amber
Odor:	Characteristic
Odor Threshold:	Not available.
pH:	Not available.
Melting Point/Range (°C/°F):	Not available.
Boiling Point/Range (°C/°F):	> 200°C / 392°F (based on constituents)
Flash Point (PMCC) (°C/°F):	257°C / 494.6°F
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	< 0.075 mmHg (20°C) (based on constituents)
Vapor Density (Air = 1):	Not available.
Relative Density:	0.87 (15°C)
Solubility in Water:	Insoluble
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	> 250°C / 482°F (based on constituents)
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	609 - 870 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Strong oxidizing agents, strong acids, strong bases, reducing agents.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, aliphatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably toxic. (Distillates (petroleum), hydrotreated heavy naphthenic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rat) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) 2.18 mg/l (4 hr) (aerosol – similar oil) (Petroleum distillates, hydrotreated heavy paraffinic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rabbit) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) > 5.53 mg/l (4 hr) (aerosol) (no mortality – similar oil)
Skin Corrosion / Irritation:	The product may be slightly irritating to the skin. (Distillates (petroleum), hydrotreated heavy naphthenic) Mildly irritating to skin (rabbit – similar oil). (Petroleum distillates, hydrotreated heavy paraffinic) Mildly irritating to skin (rabbit – similar oil).
Serious Eye Damage / Irritation:	The product may be slightly irritating to eyes. (Distillates (petroleum), hydrotreated heavy naphthenic) Slightly irritating to eye (rabbit – similar oil). (Petroleum distillates, hydrotreated heavy paraffinic) Non-irritating to eyes (rabbit – similar oil).
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Distillates (petroleum), hydrotreated heavy naphthenic) Not dermally sensitizing (guinea pig – similar oil). (Petroleum distillates, hydrotreated heavy paraffinic) Not dermally sensitizing (guinea pig – similar oil).
Mutagenicity:	This product is not expected to be mutagenic. (Distillates (petroleum), hydrotreated heavy naphthenic) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene mutation assay and micronucleus assay – similar oils). (Petroleum distillates, hydrotreated heavy paraffinic) Not mutagenic (in vitro mammalian chromosome aberration test and micronucleus assay - similar oil).
Carcinogenicity:	This product is not expected to be carcinogenic. (Distillates (petroleum), hydrotreated heavy naphthenic) In a 78 week study in mice by dermal application (0.25 ml dose rate applied once or twice a week), it was shown that there was no carcinogenic potential in sufficiently refined oil. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents). (Petroleum distillates, hydrotreated heavy paraffinic) Carcinogenic potential is reduced for highly refined distillates. Tumors have developed in animal studies, but were dependent on the concentration of impurities. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents).
Reproductive / Developmental Toxicity:	This product is not expected to be reproductively or developmentally harmful. (Distillates (petroleum), hydrotreated heavy naphthenic) In dermally-exposed rats at up to 2000 mg/kg/day during gestation, there was no evidence of teratogenicity (NOAEL was determined to be greater than 2000 mg/kg/day). (Petroleum distillates, hydrotreated heavy paraffinic) Reproductive performance and offspring development were not adversely affected in mice or rats (1000 mg/kg – similar oil).
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Distillates (petroleum), hydrotreated heavy naphthenic) No data. (Petroleum distillates, hydrotreated heavy paraffinic) No data.
Chronic/Subchronic Toxicity: Specific Target	(Distillates (petroleum), hydrotreated heavy naphthenic) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based

SECTION 11 TOXICOLOGICAL INFORMATION

- Organ/Systemic Toxicity – on organ weight changes, reddening/discoloration of organs and atrophy in
Repeated Exposure: male sex organs (similar oil).
(Petroleum distillates, hydrotreated heavy paraffinic) In a 13-week oral study
in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on
organ weight changes, reddening/discoloration of organs and atrophy in
male sex organs (similar oil).
- Aspiration Hazard: This product is not expected to pose an appreciable aspiration hazard.
- Additional Information: None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

- Acute Ecotoxicity: This product is not expected to be appreciably harmful to aquatic species.
(Distillates (petroleum), hydrotreated heavy naphthenic) LL50 (fathead
minnow) > 100 mg/l/96 hr; EL50 (Daphnia magna) > 10000 mg/l/48 hr
(similar oil); NOEL (algae) ≥ 100 mg/l/72 hr (similar oil).
(Petroleum distillates, hydrotreated heavy paraffinic) LL50 (Fathead
minnow) > 100 mg/l/96 hr (similar oil); EL50 (Daphnia magna) > 10000
mg/l/48 hr (similar oil); NOEL (algae) > 100 mg/l/72 hr (similar oil).
- Mobility: (Distillates (petroleum), hydrotreated heavy naphthenic) No data.
(Petroleum distillates, hydrotreated heavy paraffinic) Not expected to be
mobile in soil.
- Persistence/Degradability: (Distillates (petroleum), hydrotreated heavy naphthenic) Inherently
biodegradable (31% in 28 days).
(Petroleum distillates, hydrotreated heavy paraffinic) Not inherently
biodegradable (2-4% in 28 days – similar oil).
- Bioaccumulation: (Distillates (petroleum), hydrotreated heavy naphthenic) No data.
(Petroleum distillates, hydrotreated heavy paraffinic) No data.
- Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

- Environmental precautions: Prevent the material from entering drains or water courses. Do not
discharge directly to a water source. Advise Authorities if spillage has
entered watercourse or sewer or has contaminated soil or vegetation.
- Product Disposal: Dispose in accordance with all local, state (provincial), and federal
regulations. Under RCRA, it is the responsibility of the product's user to
determine at the time of disposal, whether the product meets RCRA criteria
for hazardous waste. This is because the product uses, transformations,
mixtures, processes, etc. may render the resulting materials hazardous.
- Container Disposal: Do not remove label until container is thoroughly cleaned. Empty
containers may contain hazardous residues. This material and its
container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

- DOT (US):
- Proper Shipping Name: Not regulated
- UN Number: None.
- Class: None.

SECTION 14 TRANSPORT INFORMATION

Packaging Group: None.
 Reportable Quantity: None.
 Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packing Group: None.
 Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic Substance List.
EU REACH:	One or more components of this product may not have been pre-listed or registered under REACH. Limited quantities are permitted.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	None. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts Right-To-Know Law: - Distillates (petroleum), hydrotreated heavy naphthenic (as petroleum distillates) - Petroleum distillates, hydrotreated heavy paraffinic (as petroleum distillates)
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Distillates (petroleum), hydrotreated heavy naphthenic (as petroleum distillates) - Petroleum distillates, hydrotreated heavy paraffinic (as petroleum distillates)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law:

SECTION 15 REGULATORY INFORMATION

- Distillates (petroleum), hydrotreated heavy naphthenic (as petroleum distillates)
 - Petroleum distillates, hydrotreated heavy paraffinic (as petroleum distillates)

California Proposition 65: This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40 CFR 370): None.

SARA TITLE III-Section 313 (40 CFR 372): This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.

CERCLA Hazardous Substance (40 CFR 302): This product does not contain materials subject to reporting under CERCLA and Section 304 of EPCRA.

Water Hazard Class (WGK): This product is slightly water-endangering (WGK=1).

Other Chemical Inventories:

- Australia (AICS): All components of this product are listed.
- China (IECSC): All components of this product are listed.
- Japan (ENCS): All components of this product are listed.
- Korea (KCI): All components of this product are listed.
- Philippines (PICCS): All components of this product are listed.
- Taiwan (TCSI): One or more components may not be listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH: 1
 NFPA Rating - FIRE: 1
 NFPA Rating - REACTIVITY: 0
 NFPA Rating - SPECIAL: NONE

Full text of H-Statements referred to under Section 3:

- H304 May be fatal if swallowed and enters airways
- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child

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SDS Revision History: v1.0 Initial version.

Abbreviations:

- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- CAS#: Chemical Abstract Services Number
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NFPA: National Fire Protection Association
- DOT: US Department of Transportation
- RCRA: US Resource Conservation and Recovery Act
- TLV: Threshold Limit Value
- TWA: Time-Weighted Average
- PEL: Permissible Exposure Limit
- STEL: Short Term Exposure Limit

SECTION 16 OTHER INFORMATION

WEEL: Workplace Environmental Exposure Levels
 AIHA: American Industrial Hygiene Association
 NTP: National Toxicology Program
 IARC: International Agency for Research on Cancer
 LD50: Lethal Dose 50%
 LC50: Lethal Concentration 50%
 NOAEL: No Observed Adverse Effect Level
 NOEL: No Observed Effect Level
 EC50: Effective Concentration 50%
 LL50: Lethal Loading Rate 50%
 BCF: Bioconcentration Factor
 BOD: Biological Oxygen Demand
 Koc: Soil Organic Carbon Partition Coefficient.
 TIm: Median Tolerance Limit

Key References:

United States National Library of Medicine's TOXNET
 Patty's Toxicology, 5th Edition
 European Commission's Institute for Health and Consumer Protection
 European Chemicals Agency (ECHA)
 American Conference of Governmental Industrial Hygienists
 International Agency for Research on Cancer
 United States National Toxicology Program
 United States Occupational Safety and Health Administration
 United States Department of Transportation
 Supplier Material Safety Data Sheets

Disclaimer:

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Prepared by:

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