

## SAFETY DATA SHEET

SDS: 1488

### 1488 ALMAMOLY™ HD GREASE

Issuing Date 08-06-2012

Revision Date 04-29-2020

Revision Number 4.2

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

**Product Name** 1488 ALMAMOLY™ HD GREASE

**Other means of identification**

**Synonyms** No information available

**Recommended use of the chemical and restrictions on use**

**Identified uses** Lubricant

**Uses advised against** Consumer use

**Details of the supplier of the safety data sheet**

**Manufacturer**

Lubrication Engineers Inc.  
1919 E. Tulsa  
Wichita, KS 67216  
USA  
800-537-7683

**Emergency Telephone Number**

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)  
+1-703-527-3887 (INTERNATIONAL)

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**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label Elements****Emergency Overview****Signal Word**

None

**Hazard Statements**

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

**appearance** black**Physical state** Paste**Odor** Hydrocarbon-like**Precautionary Statements - Prevention**

None.

**Response**

None.

**Eyes**

None.

**Skin**

None.

**Inhalation**

None.

**Ingestion**

None.

**Fire**

None.

**Spill**

None.

**Storage**

None.

**Disposal**

None.

**Hazards not otherwise classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No.	Weight-%
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	10 - 20
Petroleum distillates, solvent-refined heavy	64741-96-4	10 - 20

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naphthenic		
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	10 - 20
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10 - 20
molybdenum disulphide	1317-33-5	5 - 10
Calcium Carbonate	471-34-1	5 - 10

The producer of "1488" declares that it contains less than 3% DMSO extractable material by IP-346

**4. FIRST AID MEASURES****First Aid Measures**

<b>General Advice</b>	If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. Consult a physician. If not breathing, give artificial respiration.
<b>Ingestion</b>	May cause adverse kidney effects. Drink plenty of water. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	Use personal protective equipment.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b><u>Flash Point</u></b>	260 °C / 500 °F
<b><u>Suitable Extinguishing Media</u></b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Specific Hazards Arising from the Chemical</u></b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not impact sensitive.
<b><u>Sensitivity to Static Discharge</u></b>	May be ignited by friction, heat, sparks or flames.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	Wear self-contained breathing apparatus and protective suit.

**NFPA****Health hazard 1****Flammability 1****Stability 0**

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Do not touch or walk through spilled material. Remove all sources of ignition.

**Environmental Precautions**

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for Cleaning up** Use personal protective equipment. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent vapor buildup by providing adequate ventilation during and after use. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible products.** Strong oxidizing agents. Strong acids. Strong bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
molybdenum disulphide 1317-33-5	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 10 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup>
Calcium Carbonate 471-34-1	-	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.

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<b>Skin and Body Protection</b>	Long sleeved clothing. Protective gloves.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Paste
<b>appearance</b>	black
<b>Odor</b>	Hydrocarbon-like
<b>Odor threshold</b>	No information available

**Property****Property**

<b>pH</b>	6 - 8
<b>Melting Point / Freezing Point</b>	No data available
<b>Boiling Point/Range</b>	no data available
<b>Flash Point</b>	260 °C / 500 °F
<b>Upper flammability limit:</b>	No data available
<b>Lower Flammability Limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor Density</b>	< 1 ( Air = 1 )
<b>Specific Gravity</b>	0.95
<b>Water solubility</b>	negligible
<b>Partition Coefficient: n-octanol/water</b>	no data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, kinematic</b>	not applicable

**10. STABILITY AND REACTIVITY****reactivity** No information available**Chemical stability** Stable under recommended storage conditions.**Possibility of Hazardous Reactions** None under normal processing.**Conditions to Avoid** Heat, flames and sparks. Contact with other chemicals**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.

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**Skin Contact**

May cause irritation.

**Ingestion**

There is no data available for this product.

**Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5530 mg/m <sup>3</sup> ( Rat ) 4 h
Petroleum distillates, solvent-refined heavy naphthenic 64741-96-4	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
molybdenum disulphide 1317-33-5	-	-	> 2820 mg/m <sup>3</sup> ( Rat ) 4 h
Calcium Carbonate 471-34-1	= 6450 mg/kg ( Rat )	-	-

**Information on toxicological effects****Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

The producer of "1488" declares that it contains less than 3% DMSO extractable material by IP-346

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenicity**

No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	-	-	-	-
Petroleum distillates, solvent-refined heavy naphthenic 64741-96-4	-	-	-	-
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	-	-	-	-

**Reproductive toxicity**

No information available.

**Target Organ Effects**

Respiratory system, Eyes, Skin.

**Numerical measures of toxicity - Product Information**

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The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5554 mg/kg

ATEmix (dermal) 8948 mg/kg

ATEmix (inhalation-dust/mist) 56.4 mg/l

**12. ECOLOGICAL INFORMATION**Ecotoxicity None known

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	-	-	-	-
Petroleum distillates, solvent-refined heavy naphthenic 64741-96-4	-	-	-	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	-	-	-	-
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	-	-	-	-

Persistence and Degradability No information available.Bioaccumulation No information available.Mobility The product is insoluble and floats on water.Other Adverse Effects No information available**13. DISPOSAL CONSIDERATIONS**Waste treatment methods**Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated Packaging** Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**14. TRANSPORT INFORMATION**DOT

Not regulated

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material does not contain any components with a CERCLA RQ.



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**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

**NFPA**

Health hazard 1

Flammability 1

Stability 0

**16. OTHER INFORMATION**

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Reason for revision General Information.

**Disclaimer**

The information provided in this Material 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.

SDS is available at [www.LElubricants.com](http://www.LElubricants.com)

**End of Safety Data Sheet**