

## SAFETY DATA SHEET

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

Product Name 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Lubricant

Uses advised against Consumer use

#### 1.3. Details of the supplier of the safety data sheet

##### Importer

Master Fluid Solutions  
501 W. Boundary Street  
Perrysburg, OH 43551  
USA  
+1 419-874-7902

##### Manufacturer

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

#### For further information, please contact

techsupport@le-inc.net

#### 1.4. Emergency telephone number

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

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 3 - (H412)
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### 2.2. Label Elements

#### Product Identifier

Contains Residual oils (petroleum), solvent dewaxed

#### Signal word

None

#### Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use, P202 - Do not handle until all safety precautions have been read and understood, P273 - Avoid release to the environment, P280 - Wear protective gloves/protective clothing/eye protection/face protection, P308 + P313 - IF exposed or concerned: Get medical advice/attention, P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other Hazards

Other hazards

May be harmful in contact with skin Harmful to aquatic life

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Chemical name	EC-No	CAS No.	Weight-%	Classification (Reg. 1272/2008)	REACH Registration Number
Diacetone alcohol	Present	123-42-2	1 - 5	Eye Irrit. 2 (H319)	no data available
Vermiculite	-	1318-00-9	0.1 - 1	No data available	no data available
Butylated Hydroxy Toluene	Present	128-37-0	0.1 - 1	No data available	no data available
Silica, quartz	Present	14808-60-7	0.1 - 1	No data available	no data available
Mica (mineral)	-	12001-26-2	0.1 - 1	No data available	no data available
Titanium Dioxide	Present	13463-67-7	< 0.1	No data available	no data available
Iron Oxide	Present	1309-37-1	< 0.1	No data available	no data available

The producer of "1251" declares that it contains less than 3% DMSO extractable material by IP-346

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General Advice

If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

	attendance. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Call a physician if irritation persists.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Protection of First-aiders</b>	Use personal protective equipment.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	None known.
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## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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## **Section 5: FIRE FIGHTING MEASURES**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Flash Point</b>	287 °C / 548.6 °F

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Do not touch or walk through spilled material. Remove all sources of ignition.
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### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### 6.3. Methods and material for containment and cleaning up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
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SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

**Methods for Cleaning up**

Use personal protective equipment. Dam up. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

**6.4. Reference to other sections**

See Section 12 for more information.

## Section 7: HANDLING AND STORAGE

**7.1. 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.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. 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.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters****Occupational Exposure limits**

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Diacetone alcohol 123-42-2	-	STEL 75 ppm STEL 362 mg/m <sup>3</sup> TWA 50 ppm TWA 241 mg/m <sup>3</sup>	TWA 50 ppm TWA 240 mg/m <sup>3</sup>	TWA 50 ppm TWA 241 mg/m <sup>3</sup>	AGW 20 ppm AGW 96 mg/m <sup>3</sup> H*
Butylated Hydroxy Toluene 128-37-0	-	STEL 30 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	AGW 10 mg/m <sup>3</sup>
Silica, quartz 14808-60-7	-	STEL 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	TWA 0.05 mg/m <sup>3</sup>	-
Mica (mineral) 12001-26-2	-	STEL 30 mg/m <sup>3</sup> STEL 2.4 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 0.8 mg/m <sup>3</sup>	-	TWA 3 mg/m <sup>3</sup>	-
Titanium Dioxide 13463-67-7	-	STEL 30 mg/m <sup>3</sup> STEL 12 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 4 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	-
Iron Oxide 1309-37-1	-	STEL 10 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup> STEL 12 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 4 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

Diacetone alcohol 123-42-2	-	TWA 50 ppm	-	TWA 50 ppm TWA 240 mg/m <sup>3</sup> STEL 75 ppm STEL 360 mg/m <sup>3</sup>	TWA 50 ppm TWA 240 mg/m <sup>3</sup>
Butylated Hydroxy Toluene 128-37-0	-	TWA 2 mg/m <sup>3</sup> C(A4)	-	TWA 10 mg/m <sup>3</sup> STEL 20 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>
Silica, quartz 14808-60-7	-	TWA 0.025 mg/m <sup>3</sup> C(A2)	TWA 0.075 mg/m <sup>3</sup>	TWA 0.05 mg/m <sup>3</sup>	TWA 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>
Mica (mineral) 12001-26-2	-	TWA 3 mg/m <sup>3</sup>	-	-	-
Titanium Dioxide 13463-67-7	-	TWA 10 mg/m <sup>3</sup> C(A4)	-	-	TWA 6 mg/m <sup>3</sup>
Iron Oxide 1309-37-1	-	TWA 5 mg/m <sup>3</sup> C(A4)	-	TWA 5 mg/m <sup>3</sup>	TWA 3.5 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
Diacetone alcohol 123-42-2	H* TWA 50 ppm TWA 240 mg/m <sup>3</sup>	H* TWA 20 ppm TWA 96 mg/m <sup>3</sup> STEL 40 ppm STEL 192 mg/m <sup>3</sup>	TWA 240 mg/m <sup>3</sup>	TWA 25 ppm TWA 120 mg/m <sup>3</sup> STEL 37.5 ppm STEL 150 mg/m <sup>3</sup>	TWA 50 ppm TWA 240 mg/m <sup>3</sup> STEL 150 ppm STEL 720 mg/m <sup>3</sup>
Vermiculite 1318-00-9	STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	-	-	-	-
Butylated Hydroxy Toluene 128-37-0	TWA 10 mg/m <sup>3</sup>	SS-C** TWA 10 mg/m <sup>3</sup> C1 STEL 40 mg/m <sup>3</sup>	-	-	TWA 10 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup>
Silica, quartz 14808-60-7	TWA 0.15 mg/m <sup>3</sup>	SS-C** TWA 0.15 mg/m <sup>3</sup> C1	TWA 2 mg/m <sup>3</sup> TWA 0.3 mg/m <sup>3</sup> TWA 4.0 mg/m <sup>3</sup> TWA 1.0 mg/m <sup>3</sup>	TWA 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup> K** STEL 0.9 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>
Mica (mineral) 12001-26-2	TWA 10 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup>	-	TWA 6 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> STEL 12 mg/m <sup>3</sup> STEL 6 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> TWA 0.8 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup> STEL 2.4 mg/m <sup>3</sup>
Titanium Dioxide 13463-67-7	STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	SS-C** TWA 3 mg/m <sup>3</sup>	TWA 10.0 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> TWA 4 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup> STEL 12 mg/m <sup>3</sup>
Iron Oxide 1309-37-1	STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup> STEL 6 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 4 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup> STEL 12 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Hungary</b>	<b>Belgium</b>	<b>Czech Republic</b>	<b>Greece</b>	<b>Sweden</b>
Diacetone alcohol 123-42-2	-	TWA 50 ppm TWA 241 mg/m <sup>3</sup>	TWA 200 mg/m <sup>3</sup> Ceiling 300 mg/m <sup>3</sup>	TWA 50 ppm TWA 240 mg/m <sup>3</sup> STEL 75 ppm STEL 360 mg/m <sup>3</sup>	LLV 25 ppm LLV 120 mg/m <sup>3</sup> Indicative STLV 50 ppm Indicative STLV 240 mg/m <sup>3</sup>
Butylated Hydroxy Toluene 128-37-0	-	TWA 2 mg/m <sup>3</sup>	-	TWA 10 mg/m <sup>3</sup>	-
Silica, quartz 14808-60-7	TWA 0.15mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	-	LLV 0.1 mg/m <sup>3</sup> C
Mica (mineral) 12001-26-2	-	TWA 3 mg/m <sup>3</sup>	TWA 2.0 mg/m <sup>3</sup>	-	-
Titanium Dioxide 13463-67-7	-	TWA 10 mg/m <sup>3</sup>	-	TWA 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	LLV 5 mg/m <sup>3</sup>
Iron Oxide	TWA 6mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	LLV 3.5 mg/m <sup>3</sup>

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

1309-37-1				STEL 10 mg/m <sup>3</sup>	
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**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Hand Protection** Protective gloves.

**Skin and Body Protection** Long sleeved clothing.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical state** Paste  
**appearance** red  
**Odor** Hydrocarbon-like  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>
<b>pH</b>	6 - 8
<b>Melting point/freezing point</b>	No data available
<b>Boiling point / boiling range</b>	No data available
<b>Flash Point</b>	287 °C / 548.6 °F
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</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
<b>Explosive properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known.

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

## 10.2. Chemical stability

Stable under normal conditions.

### Explosion Data

**Sensitivity to Mechanical Impact** Not impact sensitive.**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

## 10.3. Possibility of hazardous reactions

**Hazardous reactions** None under normal processing.

## 10.4. Conditions to avoid

Heat, flames and sparks.

## 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Toxicity

#### Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

The producer of "1251" declares that it contains less than 3% DMSO extractable material by IP-346

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

**Unknown Acute Toxicity** 10.172% of the mixture consists of ingredient(s) of unknown toxicity.

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

<b>ATEmix (oral)</b>	5,121.80 mg/kg
<b>ATEmix (dermal)</b>	2,079.80 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	1,237.06 mg/l

### Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Residual oils (petroleum), solvent dewaxed	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
Diacetone alcohol	> 4 g/kg ( Rat )	= 13630 mg/kg ( Rabbit ) = 13500 mg/kg ( Rabbit )	> 7.23 g/m <sup>3</sup> ( Rat ) 8 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	> 5000 mg/kg ( Rat )	-	-

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

Butylated Hydroxy Toluene	> 2930 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Water	> 90 mL/kg ( Rat )	-	-
Titanium Dioxide	> 10000 mg/kg ( Rat )	-	-
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2180 mg/m <sup>3</sup> ( Rat ) 4 h
Iron Oxide	> 10000 mg/kg ( Rat )	-	-
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	> 5000 mg/kg ( Rat )	-	> 12.6 mg/L ( Rat ) 4 h

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenic Effects** No information available

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Central nervous system (CNS), Respiratory system, Eyes, Liver, Skin.

**Aspiration Hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects Harmful to aquatic life

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
Diacetone alcohol	-	LC50= 420 mg/L <i>Lepomis macrochirus</i> 96 h	EC50 = 8750 mg/L 24 h
Butylated Hydroxy Toluene	EC50 = 6 mg/L 72 h EC50 > 0.42 mg/L 72 h	-	-

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Chemical name	Log Pow
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SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

Diacetone alcohol	1.03
Butylated Hydroxy Toluene	4.17

## 12.4. Mobility in soil

**Mobility in soil** No information available.

**Mobility** The product is insoluble and floats on water.

## 12.5. Results of PBT and vPvB assessment

No information available.

## 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** 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.

**OTHER INFORMATION** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

**IMDG** Not regulated

**ADR/RID** Not regulated

**ICAO/IATA** Not regulated

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**WGK Classification (VwVwS)** 3

#### International Inventories

**TSCA** Complies  
**DSL/NDSL** Not determined

SDS: 1251

# 1251 ALMASOL® HIGH TEMPERATURE LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-05-2019

Revision Number 1.1

EINECS/ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Not determined
PICCS	Complies
AICS	Complies

## Legend

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

DSL/NDL - 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

**15.2. Chemical safety assessment** No information available

## Section 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

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Reason for revision	Update to Format.

### 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**