

Issue Date 26-Sep-2018

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Version 1

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

### Product identifier

**Product Name** Cone Drive Harmonic Solutions® High Performance L1 Grease

### Other means of identification

**Product code:** LUBEHSGREASE-01

### **Synonyms**

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

**Recommended Use** Lubricant.

**Uses advised against** Consumer use

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

#### **Supplier Address**

Cone Drive  
240 East 12th Street  
Traverse City, Michigan 49684  
Phone: (231) 360-7589

**Emergency telephone number** CHEMTREC 1-800-424-9300 / +1 703-527-3887 CCN 841828

**NON-EMERGENCY** 231-360-7589

## 2. HAZARD IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2

### Label Elements

#### **EMERGENCY OVERVIEW**

#### **Signal word**

Warning

#### **Hazard statements**

Causes serious eye irritation



**Appearance** Paste**Physical state** Solid**Odor** Mild**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

**Hazards not otherwise classified (HNOC)****Other information**

• Causes mild skin irritation

• Harmful to aquatic life with long lasting effects

**Unknown Acute Toxicity**

1.5114% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components	CAS-No	Weight %	Trade Secret
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	1 - 5%	*
bis(Nonylphenyl)amine	36878-20-3	1 - 5%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES****First aid measures****Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**Skin contact:** Rinse with plenty of water. If skin irritation persists, call a physician.**Inhalation:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.**Ingestion:** Do not induce vomiting. Consult a physician.**Most important symptoms and effects, both acute and delayed****Symptoms:** No information available.**Indication of any immediate medical attention and special treatment needed****Notes to physician:** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**Carbon dioxide (CO<sub>2</sub>). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Water may be used to cool closed containers.

**Hazardous combustion products** Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Oxides of sulfur.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for firefighters:**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

**Environmental precautions**

**Environmental precautions:** Do not allow material to contaminate ground water system. Prevent product from entering drains. Avoid subsoil penetration.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Scrape-up. Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep cool. Keep in properly labelled containers. Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m<sup>3</sup>, ACGIH STEL of 10 mg/m<sup>3</sup>.

**Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas.

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

<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required.
<b>Hand protection:</b>	Gloves made of plastic or rubber
<b>Eye protection:</b>	Avoid contact with eyes
<b>Skin and body protection:</b>	Usual safety precautions while handling the product will provide adequate protection against this potential effect
<b>General Hygiene Considerations</b>	Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	Mild	<b>Color</b>	Beige	<b>Odor threshold</b>	No information available
<b>Appearance</b>	Paste						

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
<b>Melting point/freezing point</b>	No information available		<b>pH</b>	Not applicable
<b>Flash point</b>	> 238 °C / > 460 °F	ISO 2592	<b>Boiling point / boiling range</b>	No information available
<b>Flammability (solid, gas)</b>	No information available		<b>Evaporation rate</b>	No information available
<b>Upper flammability limit:</b>	No information available		<b>Flammability Limit in Air</b>	
<b>Vapor pressure</b>	< 0.001 hPa, 20 °C		<b>Lower flammability limit:</b>	No information available
<b>Specific Gravity</b>	0.9		<b>Vapor density</b>	No information available
<b>Solubility in other solvents</b>	No information available		<b>Water solubility</b>	Insoluble in water
<b>Autoignition temperature</b>	No information available		<b>Partition coefficient</b>	No information available
<b>Kinematic viscosity</b>	No information available		<b>Decomposition temperature</b>	No information available
<b>Explosive properties</b>		No information available	<b>Dynamic viscosity</b>	No information available
<b>Oxidizing properties</b>		No information available		

### Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**  
Not applicable

### Chemical stability

**Stability** Stable under normal conditions  
**Possibility of Hazardous Reactions**

<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.

**Conditions to avoid**

<b>Conditions to avoid</b>	Heat, flames and sparks
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**Hazardous Decomposition Products**

<b>Hazardous Decomposition Products</b>	None under normal processing
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**Incompatible materials**

<b>Incompatible materials</b>	Strong oxidising agents
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## 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>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.
<b>Inhalation</b>	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate) - 4259-15-8	= 3100 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
bis(Nonylphenyl)amine - 36878-20-3	> 5000 mg/kg ( Rat )	-	-

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

<b>Sensitization</b>	No sensitization responses were observed.
<b>Mutagenic effects:</b>	Did not show mutagenic or teratogenic effects in animal experiments.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>STOT - Single Exposure</b>	None under normal use conditions.
<b>STOT - Repeated Exposure</b>	None under normal use conditions.
<b>Aspiration hazard</b>	Not applicable.

**Numerical measures of toxicity - Product Information**

<b>Unknown Acute Toxicity</b>	1.5114% of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (oral)</b>	5155 mg/kg
<b>ATEmix (dermal)</b>	5332 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	6.3 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects

1.5114009% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) - 4259-15-8	
<b>Algae/aquatic plants</b>	1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50
<b>Fish</b>	1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static
<b>Crustacea</b>	1 - 1.5: 48 h Daphnia magna mg/L EC50
bis(Nonylphenyl)amine - 36878-20-3	
<b>Algae/aquatic plants</b>	-
<b>Fish</b>	1000: 96 h Pimephales promelas mg/L LC50 semi-static
<b>Crustacea</b>	-

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

The product is insoluble and floats on water.

Components	Partition coefficient
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) - 4259-15-8	2.86

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

**DOT** Not Regulated

**IATA-DGR** Not Regulated

**IMO / IMDG** Not Regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA:** Listed in TSCA

<b>DSL:</b>	All of the components in this product are listed in DSL
<b>EINECS/ELINCS</b>	This product complies with EINECS/ELINCS
<b>CHINA:</b>	This product complies with China IECSC.
<b>KECL:</b>	This product does not comply with Korea KECL.
<b>PICCS:</b>	This product complies with Philippines PICCS.
<b>AICS:</b>	All the constituents of this material are listed on the Australian AICS

**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

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Components	SARA 313 Threshold:
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Zinc compound (1%)

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (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, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**State Regulations (RTK)****California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

Components	NJRTK:	MARTK:	PARTK:
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) - 4259-15-8	Substance no. 3012 Listed	Not Listed	Listed

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION****NFPA:**

Health: 1  
Flammability: 1  
Instability 0  
NFPA/HMIS \* for Carc, Muta, Tera, Specific Organ \*  
HMIS health rating:  
Health: 1  
Flammability: 1  
Physical hazards 0  
Personal protection B

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Revision Note  
Not applicable

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 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.

**End of Safety Data Sheet**