

## Section 1 – Product & Company Identification

## Section 2 – Hazards Identification

## Health Hazards

### Serious Eye Damage/Eye Irritation

## Category 2A

## Hazard Symbol



Signal Word:           Warning

Hazard Statements:

Causes serious eye damage.

## Precautionary Statement

### Prevention:

Wear eye or face protection. Wash hands thoroughly after handling.

Response:

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 attention.

Other hazards which do not result in GHS classification: None

Product Name ..... : Gear Grease

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**Section 3 – Composition / Information On Ingredients**

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<b>Component:</b>	<b>CAS #</b>	<b>% By Weight</b>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	40-70%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-5%

Any concentration shown as a range is to protect 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 or the environment and hence require reporting in this section.

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**Section 4 – First Aid Measures**

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**INGESTION:**

Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

**INHALATION:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**SKIN CONTACT:**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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**EYE CONTACT:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED**

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Ingestion : Irritating to mouth, throat and stomach.

Skin contact : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact :

Adverse symptoms may include the following:

pain or irritation, watering, redness

Inhalation : No specific data

Ingestion : No specific data

Skin contact : No specific data

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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## **Section 5 – Fire Fighting Measures**

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### **EXTINGUISHING MEDIA**

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:

None known.

### **SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**

No specific fire or explosion hazard.

### **HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:**

Decomposition products may include the following materials:  
carbon dioxide, carbon monoxide, metal oxide/oxides

### **SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Special firefighting procedures:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## **Section 6 – Accidental Release Measures**

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### **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

For non-emergency personnel: 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: 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 nonemergency personnel".

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#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Small spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 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).

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### Section 7 – Handling And Storage

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#### PRECAUTIONS FOR SAFE HANDLING:

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational 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.

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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**Section 8 – Exposure Controls / Personal Protection**

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**EXPOSURE LIMITS**

Ingredient Name	Exposure Limits
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 6/2013). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction  NIOSH REL (United States, 10/2013). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist  OSHA PEL (United States, 2/2013). TWA: 5 mg/m <sup>3</sup> 8 hours.

**APPROPRIATE ENGINEERING CONTROLS**

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.

**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.

**EYE/FACE 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: chemical splash goggles.

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**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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**SKIN AND BODY PROTECTION:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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:**

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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**Section 9 – Physical And Chemical Properties**

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Appearance	
Physical State	Solid
Form	No data available
Color	Amber
Odor	Mild petroleum
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%)	No data available
Flammability limit - lower (%)	No data available
Explosive limit – upper (%)	No data available
Explosive limit – lower (%)	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.89g/cm <sup>2</sup>
Solubility(ies)	
Solubility in water	Insoluble
Solubility (other)	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	>0.21 cm <sup>2</sup> /s (40 °C)



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**Section 10 – Stability And Reactivity**

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**REACTIVITY:**

No specific test data related to reactivity available for this product or its ingredients.

**CHEMICAL STABILITY:**

The product is stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Under normal conditions of storage and use, hazardous reactions will not occur.

**CONDITIONS TO AVOID:**

No specific data.

**INCOMPATIBLE MATERIALS:**

No specific data.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**Section 11 – Toxicological Information**

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**INFORMATION ON TOXICOLOGICAL EFFECTS****Acute toxicity**

Ingredient	Result	Species	Dose	Exposure
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

**IRRITATION/CORROSION****Conclusion/Summary**

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Respiratory : No known significant effects or critical hazards.

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**SENSITIZATION**

## Conclusion/Summary

Skin : No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory : Sensitization not suspected for humans.

**MUTAGENICITY**

Conclusion/Summary : There are no data available on the mixture itself.  
Mutagenicity not suspected for humans.

**CARCINOGENICITY**

Conclusion/Summary : There are no data available on the mixture itself.  
Carcinogenicity not suspected for humans.

**REPRODUCTIVE TOXICITY**

Conclusion/Summary : There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

**TERATOGENICITY**

Conclusion/Summary : There are no data available on the mixture itself.  
Teratogenicity not suspected for humans.

**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)**

Not available.

**SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)**

Not available.

**ASPIRATION HAZARD**

Name	Result
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1

**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE**

Routes of entry anticipated: Oral, Dermal, Inhalation.

**POTENTIAL ACUTE HEALTH EFFECTS**

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : Irritating to mouth, throat and stomach.

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#### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eye contact : Adverse symptoms may include the following:

pain or irritation, watering, redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

Short term exposure

Potential delayed effects : Not available.

Potential immediate effects: Not available.

Long term exposure

Potential delayed effects : Not available.

#### POTENTIAL CHRONIC HEALTH EFFECTS

Conclusion/Summary : Contains material that may cause target organ damage, based on animal data.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### NUMERICAL MEASURES OF TOXICITY

Acute toxicity estimates: Not available.

Product Name ..... : Gear Grease

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## **Section 12 – Ecological Information**

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### **TOXICITY**

Conclusion/Summary : There are no data available on the mixture itself.

### **PERSISTENCE AND DEGRADABILITY**

Conclusion/Summary : Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Not available.

### **MOBILITY IN SOIL**

Soil/water partition coefficient (KOC): Not available

OTHER ADVERSE EFFECTS : No known significant effects or critical hazards.

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## **Section 13 – Disposal Consideration**

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### **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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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 – Transportation Information**

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Not regulated by DOT, IMDG, IATA, Mexico, ADR/RID

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### Section 15 – Regulatory Information

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#### US FEDERAL REGULATIONS

TSCA 8(a) PAIR: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; tris(dipentylidithiocarbamate-S,S')antimony

#### CLEAN AIR ACT SECTION 112 (B) HAZARDOUS AIR POLLUTANTS (HAPS)

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 were found

SARA 304 RQ : Not applicable

SARA 311/312

Classification : Immediate (acute) health hazard

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	1-5	No	No	No	Yes	No

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**SARA 313**

	Name	CAS#	%
Form R - Reporting requirements	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-5
Supplier notification	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**US STATE REGULATION**

California Prop. 65: None of the components are listed.

Connecticut Carcinogen Reporting : None of the components are listed.

Connecticut Hazardous Material Survey : None of the components are listed.

Florida substances : None of the components are listed.

Illinois Chemical Safety Act : None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act:

None of the components are listed.

Louisiana Reporting : None of the components are listed.

Louisiana Spill : None of the components are listed.

Massachusetts Spill : None of the components are listed.

Massachusetts Substances : None of the components are listed.

Michigan Critical Material : None of the components are listed.

Minnesota Hazardous Substances : None of the components are listed.

New Jersey Spill : None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act :

None of the components are listed.

New Jersey Hazardous Substances : The following components are listed:

zinc compounds

New York Acutely Hazardous Substances : None of the components are listed.

New York Toxic Chemical Release Reporting :

None of the components are listed.

Pennsylvania RTK Hazardous Substances : The following components are listed:

zinc compounds

Rhode Island Hazardous Substances : None of the components are listed.

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#### CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

##### Canadian lists

Canadian NPRI: The following components are listed:

zinc (and its compounds)

CEPA Toxic substances : None of the components are listed.

Canada inventory; DSL/NDSL:

All components are listed or exempted.

#### INTERNATIONAL REGULATIONS

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### INTERNATIONAL LISTS

National inventory

Australia : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : All components are listed or exempted.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

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### Section 16 – Other Information

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