1. Product Identification

Champion Brands, LLC
1001 Golden Drive
Clinton, MO 64093
(660) 885-8151

Product line: CHAMPION® Industrial EP Gear Oils
Products: 4068, 4100, 4069, 4070, 4076, 4077
CAS: Not applicable (Mixture)
Synonyms: Extreme pressure gear oil
Recommended use: Industrial Gear Oil
Restrictions: None determined
Created: 3 April 2012
Revised: 12 March 2014
Emergency phone: CHEMTREC: (+1) 800-424-9300

2. Hazards Identification

Appearance: Golden to dark amber liquid
Odor: Moderate sulfurous
Classification:
  Skin Irritation, Category 3
  Skin Sensitization, Category 1
  Aquatic Toxicity (Chronic), Category 1
Target organs: Not Determined

Symbol(s):
Signal Word: Warning
Hazard Statement(s): Causes mild skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long-lasting effects.
Other hazard(s): Product will burn, though difficult to ignite. This product produces oil sheen on bodies of water. Mists of sprays of this product may be harmful if inhaled. May be irritating to the eyes.
Precaution(s): Avoid breathing vapors/mist/spray. Wear protective gloves/protective clothing/eye protection. Contaminated work
clothing should not be allowed out of the workplace. Avoid release to the environment.
Keep out of waterways. Check local, national, and international regulations for proper disposal

Disposal:

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
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</thead>
<tbody>
<tr>
<td>Component</td>
</tr>
<tr>
<td>Mineral Oil</td>
</tr>
<tr>
<td>Alkyl Polysulfides</td>
</tr>
<tr>
<td>Long Chain Alkylamine</td>
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<tr>
<td>Alkyl Phosphates</td>
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<tr>
<td>Long Chain Alkenyl Amine</td>
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</tbody>
</table>

4. First Aid Measures

Eyes
Flush eyes with running water for at least 15 minutes. Get medical attention if irritation persists

Skin
Flush exposed area with running water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists or if signs of an allergic reaction appear.

Inhalation
Move to fresh air. If nausea or other symptoms persist, get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention immediately.

Ingestion
DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, lower head below hips to reduce risk of aspiration. If conscious, give one glass of water. Get immediate medical attention.

Additional Info
Note to physician: Treat symptomatically. Contact poison control for more information.

5. Fire Fighting Measures

NFPA (estimated): Health - 1  Fire - 1  Reactivity - 0

Flash Point
> 93°C / 199°F (based on flammability of components)

Extinguishing Media
Use water spray, fog, foam, dry chemical or CO₂
Unsuitable Media: Water jet may cause fire to spread

Firefighting Procedures: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear

Unusual Hazards: See section 10 for additional information

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area. Eliminate sources of ignition if it is safe to do so. Wear suitable personal protective equipment and stop the spread of material with adsorbent or socks if safe to do so.

Environmental precautions: Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater. Produces oil sheen on waterways. Toxic to aquatic organisms

Methods for removal: Use a pump or bucket to recover free liquid. Residual liquid can be absorbed on inert material. Use non-sparking tools.

7. Handling and Storage

Max. Handling Temp: 70°C / 158°F
Procedures: Open container in a cool, well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, respiratory discomfort or nausea. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from strong oxidizers

Max Store Temp: 40°C / 104°F
8. Exposure Controls/Personal Protection

Exposure Limits
Guidelines by component

Mineral Oil (mists)
- OSHA TWA: 5 mg/m3
- ACGIH TWA: 5 mg/m3
- TWA (Canada): 5 mg/m3
- STEL (Canada): 10 mg/m3
- EH40-MEL: 5 mg/m3, 8 hours
- NOHSC: 5 mg/m3, 8 hours

Other Exposure Limits: None known

Engineering Controls: Use in a well ventilated area. Where possible, cover sources of oil sprays and mists with adsorbent cloth to minimize exposure to mineral oil mists. Keep concentrations of mist below exposure limits

Personal Protective Equipment
Respiratory: Where mineral oil mists are generated – use full face respirator with organic vapor cartridge.

Eye: Wear safety glasses where splashing or splattering may occur

Gloves: Use nitrile or neoprene gloves. If material is hot, use appropriately insulated gloves.

Clothing: Use neoprene or nitrile gloves. When handling at elevated temperatures, use insulated apron or coat. Launder contaminated clothing before reuse

Hygiene: Wash thoroughly after handling this product.

9. Physical and Chemical Properties

Appearance: Golden to dark amber liquid
Odor: Moderate sulfurous
Odor threshold: Not determined
pH: Not determined
Melting Point: Not determined
Initial Boiling Pt/Rng: Not determined
Flash Point  > 93°C / 199°F (estimated based on components)
Evaporation Rate  Nil (where nBuAc = 1)
Upper Flammable Lm  Not determined
Lower Flammable Lm  Not determined
Explosive Data  Not determined
Vapor Pressure  0.013 torr @ 25°C / 68°F
Vapor Density  Not determined
Volatile Organics  Not determined
Density  0.9 mg/cu. cm @ 15.6°C
Solubility  Insoluble in water, alcohols; soluble in organics
K_{ow}  Not determined
Viscosity  Varies; Dependent on ISO and AGMA viscosity grade
Autoignition Point  Not determined
Decomposition Temp  Not determined

10. Stability and Reactivity

Stability  Material is normally stable at normal temperatures and pressures
Decomposition Temp  Not determined
Incompatibility  Oxidizers and reducers
Polymerization  Will not occur
Thermal Decomposition  Smoke, oxides of carbon, nitrogen, phosphorous, boron, sulfur. May also generate hydrogen sulfide if stored for extended periods of time at elevated temperatures
Conditions to Avoid  Keep away from heat, flames, strong oxidizers and strong reducing agents

11. Toxicological Information

- Acute Exposure -

Eye Irritation  Expected to cause mild irritation based on data from components. Symptoms may include redness, itchiness, or increased watering of the eyes. Vapors may cause irritation at elevated temperatures
Skin Irritation  Irritating to the skin. May cause skin sensitization or allergic dermatitis based on data from components. Symptoms may include redness, drying, and cracking of the skin.
Respiratory Irritation  May cause nose, throat and lung irritation based on data from components. These effects may be more prevalent with mists at elevated temperatures.
Dermal Toxicity  Not expected to present a danger of dermal toxicity under normal conditions of use.
Inhalation Toxicity  Inhalation of this product is not expected to be toxic.
Exposure to mineral oil mists may be harmful. Symptoms of
over-exposure to mineral oil mists may be similar to that of pneumonia.

**Oral Toxicity**

Not expected to be harmful. LD50 in rats exceeds 5g/Kg.

**Aspiration Hazard**

This product does not present a classifiable hazard of aspiration due to viscosity – however, this product may be fatal if swallowed and enters airways, particularly in those with weakened respiratory systems.

**- Chronic Exposure -**

**Chronic Toxicity**

No data available to indicate product or components present at greater than 0.2% are chronic health hazards

**Carcinogenicity**

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

**Mutagenicity**

No data available to indicate product or any components at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Toxicity**

No data available to indicate product or any components at greater than 0.1% may cause reproductive toxicity.

**Teratogenicity**

No data available to indicate product or any components at greater than 0.1% may cause teratogenic effects.

**- Additional Information -**

**Other**

No other health hazards known

12. Ecological Information

**- Environmental Toxicity -**

**Miscellaneous**

No LD/LC/EC50 data was collected for this product. Classification is based on classification of components and summation formula. Expected to be very toxic to aquatic organisms with chronic, long-lasting effects.

**- Environmental Fate -**

**Biodegradation**

The petroleum oil in this product is not readily biodegradable, but can be broken down by microorganisms and is therefore considered to be inherently biodegradable. Some components of this product may persist in the environment

**Bioaccumulation**

The petroleum oil in this product has a Kow greater than 5.3 and is regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce this potential.

**Soil Mobility**

This product is expected to have low soil mobility due to very low water solubility and low vapor pressure. Petroleum oils adsorb to soil and sediment. Once adsorbed, the product is expected to adhere to soil until it is slowly biodegraded.

**Other Effects**

Product will produce oil sheen and float on the surface of bodies of water. The product will spread across the surface
as a function of viscosity and velocities of water and surface wind.

### 13. Disposal Considerations

**Disposal Considerations**

All disposal practices must be in accordance with local, regional, national, and international regulations. Do not dispose in a landfill. Wherever possible, recycle product to used oil collection facilities in accordance with applicable regulations.

**Contaminated Containers or Packaging**

Dispose of packaging or containers in accordance with local, regional, national, and international regulations.

### 14. Transportation Information

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements.

**US DOT**

Not Regulated

*If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)*

**UN No**

Not applicable

**UN Proper Name**

Not applicable

**UN Class**

Not applicable

**Packing Group**

Not applicable

**Marine Pollutant**

*Yes

*Product contains petroleum oil which may be classified as a marine pollutant under MARPOL Annex I under certain shipping conditions.

**IMDG**

Not Regulated

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25. If transported in bulk by marine vessel in international waters, product is being carried under the scope of MARPOL Annex I*

**ICAO/IATA**

Not Regulated

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23, & 24.*

### 15. Regulatory Information

- **Global Chemical Inventories -**

  **USA**

  All components of this material are on the US TSCA or are exempt.

  **Other TSCA Reg.**

  None known

  **EU**

  Components of this product comply with EU 7th Amendment and are approved for EU sales. Records must be maintained and reported to EU only registrants if product is imported to
the EU. Third party importers are asked to report every EU import to Champion Brands, LLC.

All components are listed or exempted
All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List

- Other U.S. Federal Regulations -

**SARA Ext. Haz. Subst.** This product does not contain greater than 1.0% of any chemical on the SARA Extremely Hazardous Substances list.

<table>
<thead>
<tr>
<th>SARA Sect. 311/312</th>
<th>Acute Hazard</th>
<th>YES</th>
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<tbody>
<tr>
<td></td>
<td>Chronic Hazard</td>
<td>YES</td>
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<tr>
<td></td>
<td>Fire Hazard</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Reactivity Hazard</td>
<td>NO</td>
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</tbody>
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**CERCLA**

Phosphoric acid: 5000 lbs; Ethyl acrylate 1000 lbs; Ethylene oxide 10 lbs; Propylene oxide 100 lbs; Dioxane 100 lbs.

- State Regulations -

**CA Prop 65**

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require warning under the statute: Ethyl acrylate, ethylene oxide, propylene oxide, 1,4-dioxane

- Other -

1. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety.

Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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