

# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product Name                      Anti-wear 68 Hydraulic Oil

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

Recommended use                      Lubricant

Restrictions on use                      No information available.

## 2. Hazard(s) identification

### Classification

Not classified.

### Label elements

#### **Hazard statements**

Not classified.

### Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

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### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

| Chemical name                                        | CAS No     | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|------------------------------------------------------|------------|----------|------------------------------------------------------------------------------|-------------------------------------------------------------|
| 2,6-Di-tert-butylphenol                              | 128-39-2   | <1       | -                                                                            | -                                                           |
| Mineral oil*                                         | -          | <1       | -                                                                            | -                                                           |
| Petroleum distillates, hydrotreated light naphthenic | 64742-53-6 | <1       | -                                                                            | -                                                           |

#### **Chemical Additions**

\* The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742-55-8, and 64742-56-9.

### 4. First-aid measures

#### Description of first aid measures

|              |                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove to fresh air.                                                                                             |
| Eye contact  | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.          |
| Skin contact | Wash skin with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. |
| Ingestion    | If large quantities of this material are swallowed, call a physician immediately.                                |

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

|          |             |
|----------|-------------|
| Symptoms | None known. |
|----------|-------------|

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

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

### 5. Fire-fighting measures

|                                            |                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------|
| Suitable Extinguishing Media               | Dry chemical, CO2, water spray or regular foam.                           |
| Unsuitable extinguishing media             | Water spray jet.                                                          |
| Specific hazards arising from the chemical | Thermal decomposition can lead to release of irritating gases and vapors. |

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**Hazardous combustion products** Oxides of sulfur. Aldehydes. Ketones and their derivatives. Carbon monoxide. Organic compounds.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Extremely slippery when spilled. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Deny entry to unauthorized and unprotected personnel.

### Methods and material for containment and cleaning up

**Methods for containment** Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

| Chemical name | ACGIH TLV                            | OSHA PEL                        | NIOSH IDLH                      |
|---------------|--------------------------------------|---------------------------------|---------------------------------|
| Mineral oil*  | TWA: 5 mg/m <sup>3</sup> (inhalable) | PEL: 5 mg/m <sup>3</sup> (mist) | REL: 5 mg/m <sup>3</sup> (mist) |

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|                                                                       |                                                  |                                 |                                                                                                                                              |
|-----------------------------------------------------------------------|--------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| -                                                                     | fraction)                                        |                                 | STEL: 10 mg/m <sup>3</sup> (mist)                                                                                                            |
| Petroleum distillates,<br>hydrotreated light naphthenic<br>64742-53-6 | TWA: 5 mg/m <sup>3</sup> (inhalable<br>fraction) | PEL: 5 mg/m <sup>3</sup> (mist) | REL: 5 mg/m <sup>3</sup> (mist)<br>STEL: 10 mg/m <sup>3</sup> (mist)<br>REL: 350 mg/m <sup>3</sup><br>Ceiling limit: 1,800 mg/m <sup>3</sup> |

#### Appropriate engineering controls

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

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

**Eye/face protection**                      Goggles.

**Hand protection**                            Impervious gloves. Protective gloves.

**Skin and body protection**                Wear suitable protective 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.

**General hygiene considerations**        Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

## **9. Physical and chemical properties**

#### Information on basic physical and chemical properties

**Appearance**  
    **Physical state**                              Liquid  
    **Color**                                          Light Amber  
**Odor**                                              Mild Petroleum  
**Odor threshold**                                No information available

| <u>Property</u>                               | <u>Values</u>       | <u>Remarks • Method</u> |
|-----------------------------------------------|---------------------|-------------------------|
| <b>pH</b>                                     | No data available   | None known              |
| <b>Melting point / freezing point</b>         | No data available   | None known              |
| <b>Boiling point / boiling range</b>          | No data available   | None known              |
| <b>Flash point</b>                            | 218.3 °C / 425 °F   |                         |
| <b>Evaporation rate</b>                       | No data available   | None known              |
| <b>Flammability (solid, gas)</b>              | No data available   | None known              |
| <b>Flammability Limit in Air</b>              |                     | None known              |
| <b>Upper flammability or explosive limits</b> | No data available   |                         |
| <b>Lower flammability or explosive limits</b> | No data available   |                         |
| <b>Vapor pressure</b>                         | No data available   | None known              |
| <b>Vapor density</b>                          | No data available   | None known              |
| <b>Relative density</b>                       | 0.865 (7.21 lb/gal) |                         |
| <b>Water solubility</b>                       | Insoluble in water  |                         |
| <b>Solubility(ies)</b>                        | No data available   | None known              |
| <b>Partition coefficient</b>                  | No data available   | None known              |
| <b>Autoignition temperature</b>               | No data available   | None known              |

|                                  |                   |            |
|----------------------------------|-------------------|------------|
| <b>Decomposition temperature</b> | No data available | None known |
| <b>Kinematic viscosity</b>       | 66 – 70 cSt       | @ 40 °C    |
| <b>Dynamic viscosity</b>         | No data available | None known |

#### Other information

|                             |                           |
|-----------------------------|---------------------------|
| <b>Explosive properties</b> | No information available. |
| <b>Oxidizing properties</b> | No information available. |
| <b>Softening point</b>      | No information available  |
| <b>Molecular weight</b>     | No information available  |
| <b>VOC Content (%)</b>      | Negligible                |
| <b>Liquid Density</b>       | No information available  |
| <b>Bulk density</b>         | No information available  |

### 10. Stability and reactivity

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| <b>Reactivity</b>                         | None under normal use conditions.            |
| <b>Chemical stability</b>                 | Stable under normal conditions.              |
| <b>Possibility of hazardous reactions</b> | None under normal processing.                |
| <b>Conditions to avoid</b>                | Extremes of temperature and direct sunlight. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                     |
| <b>Hazardous decomposition products</b>   | None known based on information supplied.    |

### 11. Toxicological information

#### Information on likely routes of exposure

|                     |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available.                                         |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available.                                         |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available.                                         |

#### Symptoms related to the physical, chemical and toxicological characteristics

|                 |             |
|-----------------|-------------|
| <b>Symptoms</b> | None known. |
|-----------------|-------------|

#### Acute toxicity

**Numerical measures of toxicity**  
No information available

#### **Component Information**

| Chemical name                                        | Oral LD50            | Dermal LD50             | Inhalation LC50                      |
|------------------------------------------------------|----------------------|-------------------------|--------------------------------------|
| 2,6-Di-tert-butylphenol                              | > 5000 mg/kg ( Rat ) | > 10 g/kg ( Rabbit )    |                                      |
| Petroleum distillates, hydrotreated light naphthenic | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | = 2180 mg/m <sup>3</sup> ( Rat ) 4 h |

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

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

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

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The classification listed below for the petroleum distillates in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates in this product do not meet that criteria to be classified as carcinogens.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                                                         | ACGIH | IARC    | NTP   | OSHA |
|-----------------------------------------------------------------------|-------|---------|-------|------|
| Mineral oil*<br>-                                                     | A2    | Group 1 | Known | X    |
| Petroleum distillates,<br>hydrotreated light naphthenic<br>64742-53-6 | A2    | Group 1 | Known | X    |

#### **Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

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

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

**Aspiration hazard** A component of this mixture is an aspiration hazard (<0.1%). This does not affect the classification of the mixture.

## **12. Ecological information**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

| Chemical name                                           | Algae/aquatic plants | Fish                                       | Toxicity to microorganisms | Crustacea                                                                                                                                                  |
|---------------------------------------------------------|----------------------|--------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,6-Di-tert-butylphenol<br>128-39-2                     | -                    | -                                          | -                          | EC50: =0.45mg/L (48h, Daphnia magna)                                                                                                                       |
| Mineral oil*<br>-                                       | -                    | LC 50: > 100 mg/L (4d, Fathead Minnow)     | -                          | EC 50: > 10,000 mg/L (2d, Water flea (Daphnia magna)) EC 50: > 10 mg/L (21d, Water flea (Daphnia magna)) NOEC: > 10 mg/L (21d, Water flea (Daphnia magna)) |
| Petroleum distillates,<br>hydrotreated light naphthenic | -                    | LC50: >5000mg/L (96h, Oncorhynchus mykiss) | -                          | EC50: >1000mg/L (48h, Daphnia magna)                                                                                                                       |

|            |  |  |  |  |
|------------|--|--|--|--|
| 64742-53-6 |  |  |  |  |
|------------|--|--|--|--|

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | No information available. |
| <b>Bioaccumulation</b>               | No information available. |
| <b>Mobility in soil</b>              | No information available. |
| <b>Other adverse effects</b>         | No information available. |

### 13. Disposal considerations

#### Waste treatment methods

|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.                                                                                  |

### 14. Transport information

|                    |               |
|--------------------|---------------|
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>TDG</u></b>  | Not regulated |
| <b><u>MEX</u></b>  | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

### 15. Regulatory information

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

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

|                 |                                                   |
|-----------------|---------------------------------------------------|
| <b>TSCA</b>     | Contact supplier for inventory compliance status. |
| <b>DSL/NDSL</b> | Contact supplier for inventory compliance status. |

#### **Legend:**

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

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