1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name: Husqvarna Grease Bearing  
Recommended use: Lubricating grease.  
Version No.: 01  
CAS No.: Mixture  
Product code: 503 62-01 (35 g.)  
Manufacturer: Husqvarna New Zealand Ltd  
Supplier: Husqvarna New Zealand Ltd  
Address: 51 Aintree Avenue, Mangere, Auckland 2022  
Country: New Zealand  
Telephone: +64 9 920 2410  
e-mail: anthony.barry@husqvarnagroup.com  
Contact: Anthony Barry  
Emergency: Contact the Poisons Information Centre; Ph. 0800 764 766

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Material is hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Classification: R52-53  
Risk phrase(s): R52 Harmful to aquatic organisms.  
R53 May cause long-term adverse effects in the aquatic environment.  
Safety phrase(s): S60 This material and its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (DMSO-extract &lt; 3% IP 346)</td>
<td>-</td>
<td>30-60</td>
</tr>
<tr>
<td>Naphthenic acids, zinc salts</td>
<td>12001-85-3</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>68649-42-3</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST-AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.  
Skin contact: Wash with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. If high pressure injection under the skin occurs, always seek medical attention.  
Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.  
Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get immediate medical attention.  
General advice: If you feel unwell, seek medical advice (show the label where possible).  
Notes to physician: Provide general supportive measures and treat symptomatically. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Symptoms may be delayed. HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

5. FIRE-FIGHTING MEASURES

Extinguishing media which must not be used for safety reasons
Do not use water jet as an extinguisher, as this will spread the fire.

Unusual fire & explosion hazards
Heating will generate vapours which may form explosive vapour/air mixtures. Material will float and can be re-ignited on surface of water.

Specific hazards
By heating and fire, irritating vapours/gases may be formed.

Special protective equipment for fire-fighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Specific methods
Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

Hazchem Code
None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective clothing as described in section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Environmental manager must be informed of all major releases.

Containment procedures
Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up
Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

Small Spills: Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Handling
Use only in well-ventilated areas. Avoid inhalation of oil mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Do not eat, drink or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

Storage
Keep away from ignition, flame and heat sources. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (DMSO-extract &lt; 3% IP 346) (CAS -)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (DMSO-extract &lt; 3% IP 346) (CAS -)</td>
<td>TWA</td>
<td>5 mg/m3</td>
</tr>
</tbody>
</table>

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (DMSO-extract &lt; 3% IP 346) (CAS -)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures

Additional exposure data
Not available.

Engineering measures

Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Use explosion-proof equipment. Provide easy access to water supply and eye wash facilities.
Personal protective equipment

Respiratory protection
In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with particulate filter and organic vapor cartridges can be used. Wear air-supplied mask in confined areas. Seek advice from local supervisor.

Hand protection
Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Environmental exposure controls
Environmental manager must be informed of all major spillages.

Hygiene measures
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Private clothes and working clothes should be kept separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Grease.

Physical state
Liquid.

Form
Grease.

Colour
Brownish.

Odour
Oil-like odor.

Odour threshold
Not available.

pH
Not available.

Vapour pressure
Not available.

Vapour density
Not available.

Boiling point
Not available.

Melting point/freezing point
Not available.

Solubility (water)
Negligible.

Flash point
> 150.0 °C (> 302.0 °F) (ASTM D 92)

Flammability limits in air, upper, % by volume
Not available.

Flammability limits in air, lower, % by volume
Not available.

Auto-ignition temperature
Not available.

Evaporation rate
Not available.

Viscosity
Not available.

Other data
Flammability (solid, gas) Not applicable.

Relative density
< 1 (15 °C) (ASTM D 4052) ( Water = 1)

10. STABILITY AND REACTIVITY

Conditions to avoid
Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

Materials to avoid
Strong oxidising agents.

Hazardous decomposition products
By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

Hazardous polymerisation
Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Components
Species
Test results

Naphthenic acids, zinc salts (CAS 12001-85-3)

Acute

Oral
LD50
Rat
4920 mg/kg

Acute toxicity
May cause discomfort if swallowed.
**Routes of exposure**
Inhalation. Eyes. Skin. Ingestion.

**Toxicological information**
Occupational exposure to the substance or mixture may cause adverse effects.

**Chronic toxicity**
Prolonged contact may cause dryness of the skin. Prolonged or repeated inhalation may cause respiratory tract irritation.

**Sensitisation**
No data available.

**Carcinogenicity**
Not classified.

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

**Reproductivity**
No data available.

**Symptoms and target organs**
Irritation of eyes and mucous membranes. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

**Further information**
Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Ecotoxicological data Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthenic acids, zinc salts (CAS 12001-85-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rainbow trout (Oncorhynchus mykiss)</td>
</tr>
</tbody>
</table>

**Ecotoxicity**
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence and degradability**
Expected to biodegrade slowly.

**Mobility**
The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.

**Bioaccumulation**
The product contains potentially bioaccumulating substances.

**Other adverse effects**
Oil spills are generally hazardous to the environment.

### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions**
Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.

**Waste from residues / unused products**
Dispose of in accordance with local regulations.

**Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

**ADG**
Not regulated as dangerous goods.

**IATA**
Not regulated as dangerous goods.

**IMDG**
Not regulated as dangerous goods.

**Hazchem Code**
None

### 15. REGULATORY INFORMATION

**National regulations**
This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

**Australia HVIC: Listed substance**
Highly refined mineral oil (DMSO-extract < 3% IP 346) Listed. (CAS -)

**Australia Medicines & Poisons Schedule 4: Use/Concentration (%)Exceptions**
Naphthenic acids, zinc salts (CAS 12001-85-3) for human internal use exception may apply, see the regulation for relevance.

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc for human internal use exception may apply, see the regulation for salts (CAS 68649-42-3) relevance.
16. OTHER INFORMATION

Recommended use: Lubricating grease.

Recommended restrictions: Use in accordance with supplier’s recommendations.

Bibliography:
- HSDB® - Hazardous Substances Data Bank
- Registry of Toxic Effects of Chemical Substances (RTECS)

Disclaimer:
The information in the sheet was written based on the best knowledge and experience currently available.

Prepared by: Husqvarna AB

Issue date: 15-November-2013

Revision date: -