1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name  Husqvarna 4-Stroke Oil 10W-40
Recommended use  4-Stroke oil.
Version No.  01
CAS No.  Mixture
Product code  531 00 92-85 (1,4L), 531 00 92-71 (0,08L), 577 41 92-02 (0,6L), 577 41 97-02 (1,4L)
Manufacturer  Husqvarna New Zealand Ltd
Supplier  Anthony Barry
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

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Risk phrase(s)  None.
Safety phrase(s)  None.

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>&gt; 60</td>
</tr>
<tr>
<td>Phosphorodithioic acid, O,O-di-C11-14-alkyl esters, zinc salts</td>
<td>68649-42-3</td>
<td>1-2</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

Suitable extinguishing media  Foam. Dry powder. Carbon dioxide (CO2). Water fog.
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. Use water spray to cool unopened containers. 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
Wear protective clothing as described in Section 8 of this safety data sheet. Use only in well-ventilated areas. Avoid inhalation of oil mist and contact with skin and eyes. 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/PERSOINAL 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>OIL MIST (MINERAL) (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>OIL MIST (MINERAL) (CASTWA5 mg/m³ -)</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>OIL MIST (MINERAL) (CAS -)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures
No exposure limits noted for ingredient(s).

Additional exposure data

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. Frequent change is advisable. 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  Brown liquid.
Physical state  Liquid.
Form  Liquid.
Colour  Brown.
Odour  Oily. Slight.
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  > 200.0 °C (> 392.0 °F) Cleveland open cup (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  90 mm²/s (40 °C) (ASTM D 455)

Other data
Explosive properties  Not available.
Flammability (solid, gas)  Not applicable.
Oxidizing properties  Not oxidizing.
Relative density  0.876 (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

Acute toxicity  May irritate and cause stomach pain, vomiting, diarrhoea and nausea. Human evidence indicates that the product has very low acute oral, dermal or inhalation toxicity. However, it can produce severe injury if taken into the lung as a liquid, and there may be profound central nervous system depression following prolonged exposure to high levels of vapour.

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.
Reproductive  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

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the 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
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
4-Stroke oil.

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
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