

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Material name</b>	<b>Husqvarna 2-Stroke Oil Guard</b>
<b>Recommended use</b>	2-Stroke oil.
<b>Version No.</b>	01
<b>CAS No.</b>	Mixture
<b>Product code</b>	544 97 65-01 (1L), 544 97 65-02 (0,1L)
<b>Manufacturer</b>	
<b>Supplier</b>	Husqvarna New Zealand Ltd
<b>Address</b>	51 Aintree Avenue, Mangere, Auckland 2022
<b>Country</b>	New Zealand
<b>Telephone</b>	+64 9 920 2410
<b>e-mail</b>	anthony.barry@husqvarnagroup.com
<b>Contact</b>	Anthony Barry
<b>Emergency</b>	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.

<b>Risk phrase(s)</b>	None.
<b>Safety phrase(s)</b>	None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Percent
Highly refined mineral oil (DMSO-extract < 3% IP 346)	-	> 60
Distillates (petroleum), hydrotreated light	64742-47-8	10 - < 30
Hydrocarbyl amine	Polymer	< 10

**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

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Rinse mouth. 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.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Notes to physician</b>	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

<b>Suitable extinguishing media</b>	Foam. Dry powder. Carbon dioxide (CO2). Water fog.
<b>Extinguishing media which must not be used for safety reasons</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Unusual fire &amp; explosion hazards</b>	Heating will generate vapours which may form explosive vapour/air mixtures. Material will float and can be re-ignited on surface of water.

<b>Specific hazards</b>	By heating and fire, irritating vapours/gases may be formed.
<b>Special protective equipment for fire-fighters</b>	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.
<b>Specific methods</b>	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.
<b>Hazchem Code</b>	None

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). In case of spills, beware of slippery floors and surfaces. Avoid breathing mist or vapour. Avoid contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.
<b>Environmental precautions</b>	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.
<b>Containment procedures</b>	Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
<b>Methods for cleaning up</b>	<p>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.</p> <p>Small Spills: Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

## 7. HANDLING AND STORAGE

<b>Handling</b>	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. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.
<b>Storage</b>	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

Components	Type	Value	Form
OIL MIST (MINERAL) (CAS -)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

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

Components	Type	Value
OIL MIST (MINERAL) (CASTWA5 mg/m <sup>3</sup> -)		

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

Components	Type	Value	Form
OIL MIST (MINERAL) (CAS -)	TWA	5 mg/m <sup>3</sup>	Mist.

### Recommended monitoring procedures

**Additional exposure data** Follow standard monitoring procedures.

<b>Engineering measures</b>	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.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	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.
<b>Hand protection</b>	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.
<b>Eye protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Environmental exposure controls</b>	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**

<b>Appearance</b>	Blue liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Organic solvents.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Solubility (water)</b>	Negligible.
<b>Flash point</b>	> 75.0 °C (> 167.0 °F)
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Viscosity</b>	45 mm <sup>2</sup> /s (approximate) (40 °C)
<b>Other data</b>	
<b>Explosive properties</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Relative density</b>	0.871 (approximate) (15 °C)

**10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
<b>Materials to avoid</b>	Strong oxidising agents. Strong acids.
<b>Hazardous decomposition products</b>	By heating and fire, irritating vapours/gases may be formed. Carbon oxides.
<b>Hazardous polymerisation</b>	Hazardous polymerisation does not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	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.
<b>Routes of exposure</b>	Eye contact. Ingestion. Inhalation. Skin contact.
<b>Chronic toxicity</b>	Prolonged contact may cause dryness of the skin. Prolonged or repeated inhalation may cause respiratory tract irritation.
<b>Sensitisation</b>	No data available.
<b>Carcinogenicity</b>	Not classified.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Teratogenicity</b>	No data available.
<b>Reproductivity</b>	No data available.
<b>Symptoms and target organs</b>	May cause eye irritation on direct contact. 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. The product adsorbs strongly to soil.

**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

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	Listed.
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	Listed.

## 16. OTHER INFORMATION

**Recommended use** 2-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** -