

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name Husqvarna 2-Stroke Oil HP
Recommended use Lubrication of 2-stroke engine.
Version No. 01
SDS Number 003
CAS No. Mixture
Product code 544 97 52-01 (1L.), 544 97 52-02(10L.), 531 00 92-76 (208L.), 544 01 58-05 (0,1L.), 544 01 58-08 (1L.), 544 01 58-09 (1L), 544 01 58-10 (4L), 544 01 58-11 (10L), 544 97 59-01 (1L), 544 97 59-02 (10L), 576 74 17-01 (1L), 578 03 70-01 (1L), 578 03 71-01 (4L), 578 18 00-01 (10L), 578 18 03-01 (0.1L), 578 18 04-01 (208L)

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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

Components	CAS No.	Percent
Highly refined mineral oil (DMSO-extract < 3% IP 346)	-	> 60
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	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

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 Flush eyes immediately with large amounts of water. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists.
Ingestion 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.
General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
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). In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in section 8 of this safety data sheet.
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	<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: Wipe up spilled material and place in a suitable container for disposal. 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

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

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

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

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

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 ³	Mist.

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. 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	Blue liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Blue.
Odour	Organic solvents.
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	88.0 - 92.0 °C (190.4 - 197.6 °F) Pensky-Martens Closed Cup (ASTM D 93)
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	45 mm ² /s (approximate) (40 °C) (ASTM D 445)
Other data	
Explosive properties	Not available.
Flammability (solid, gas)	Not applicable.
Oxidizing properties	Not oxidizing.
Relative density	0.871 (approximate) (15 °C) (ASTM D 4052)

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.
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.
Teratogenicity	No data available.

Reproductivity	No data available.
Symptoms and target organs	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.
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)
(CAS -) Listed.

16. OTHER INFORMATION

Recommended use	Lubrication of 2-stroke engine.
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
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