

1. Chemical and company identification

Name of chemical (Product name) Husqvarna 2-Stroke Oil Guard
Manufacturer/Supplier Husqvarna AB
Address Drottninggatan 2
Telephone +46 (0)36-14 65 00
Contact person Accessory Department
E-mail sds.info@husqvarna.se
Emergency telephone number +1-760-476-3961 (Access code 333721)
Product code 544 97 65-01 (1L), 544 97 65-02 (0,1L)

Recommended use of the chemical and restrictions on use

Intended use 2-Stroke oil.
Restrictions on use Use in accordance with supplier's recommendations.

2. Hazards identification

GHS classification

Physical hazards Flammable liquids Category 4
Health hazards The product is not classified according to GHS.
Environmental hazards The product is not classified according to GHS.

GHS label elements

Symbols None.
Signal words Warning
Hazard statement Combustible liquid.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection.
Response In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
Storage Store in a well-ventilated place. Keep cool.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Main symptoms and emergency overview

Main symptoms Defatting of the skin. Dermatitis. Vapors may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS Number	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
Highly refined mineral oil (DMSO-extract < 3% IP 346)	-	(9)-1692	(9)-1692	> 50
Distillates (petroleum), hydrotreated light	64742-47-8	(9)-1700	(9)-1700	10 - 15
Hydrocarbyl amine	Polymer			1 - 5

Chemical formula UVCB (-), UVCB (64742-47-8)

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

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

If on skin	Immediately remove contaminated clothing. Wash with soap and water. Continue to rinse for at least 15 minutes. 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.
If in eyes	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. 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.
If swallowed	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.
Most important symptoms/effects, acute and delayed	Irritating and may cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapors may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing. May cause redness and pain.
Protection of first-aid responders	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

Extinguishing media	Foam. Dry powder. Carbon dioxide (CO ₂). Water fog.
Extinguishing media to avoid	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards	By heating and fire, irritating vapors/gases may be formed.
Special fire fighting procedures	Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.
Protection of 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.
General fire hazards	Heating may generate vapors which may form explosive vapor/air mixtures. Material will float and can be re-ignited on surface of water.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	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 vapor. Avoid contact with skin and eyes. 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.
Methods or materials for containment and cleaning up	Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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: Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

7. Handling and storage

Handling	
Technical measures (e.g. Local and general ventilation)	Use only in well-ventilated areas.
Safe handling advice	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of oil mist and contact with skin and eyes. Be aware of potential for surfaces to become slippery.
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.
Storage	
Safe storage conditions	Keep away from ignition, flame and heat sources. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Store locked up.

Safe packaging materials Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits)

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

US. ACGIH Threshold Limit Values

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

Exposure guidelines	Follow standard monitoring procedures.
Engineering measures	Provide adequate ventilation and minimize the risk of inhalation of vapors 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	Risk of contact: Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.

9. Physical and chemical properties

Appearance	Blue liquid.
Physical state	Liquid.
Form	Liquid.
Color	Blue.
Odor	Organic solvents.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	> 167.0 °F (> 75.0 °C)
Combustion characteristics (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Evaporation rate	Not available.
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Log Kow: >3 (Estimated).
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity (Coefficient of viscosity)	45 mm ² /s (approximate) (40 °C)
Other information	
Explosive properties	Not available.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	By heating and fire, irritating vapors/gases may be formed. Carbon oxides.

11. Toxicological information

Acute toxicity	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 vapor.
Skin corrosion/irritation	May be irritating to the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classified.
ACGIH Carcinogens	
OIL MIST (MINERAL) (CAS -)	A4 Not classifiable as a human carcinogen.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.
Other 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.
Bioaccumulation	The product contains potentially bioaccumulating substances.
Mobility in soil	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.
Hazardous to the ozone layer	No data available.
Other hazardous effects	Oil spills are generally hazardous to the environment.

13. Disposal considerations

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Local disposal regulations	Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.

14. Transport information

IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
National regulations	Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Organic solvent regulation

Class 3 organic solvents

MINERAL SPIRITS

Notifiable substances

MINERAL SPIRIT

10 - 15 %

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Class 4 Group 3 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Not regulated.

Air Law, Enforcement Rule

Not regulated.

Explosives Control Act

Not regulated.

16. Other information

Bibliography

HSDB® - Hazardous Substances Data Bank
 Registry of Toxic Effects of Chemical Substances (RTECS)
 JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections
 JCIA GHS Guideline, October 2008
 Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits

This safety data sheet was prepared in accordance with the Safety Data Sheet for Chemical Products (JIS Z 7250:2005). The information in the sheet was written based on the best knowledge and experience currently available.