

Section 1: Identification

Product identifier	Husqvarna 2-Stroke Oil LS+
Other means of identification	
Product code	578 03 70-02 (1L), 578 03 71-02 (4L), 578 18 00-02 (10L), 578 18 03-02 (0,1L), 578 18 04-02 (208L)
Recommended use of the chemical and restrictions on use	
Recommended use	Lubrication of 2-stroke engine.
Restrictions on use	All other uses.
Details of manufacturer or importer	
Supplier	Husqvarna New Zealand Ltd
Address	51 Aintree Avenue, Mangere, Auckland 2022
Country	New Zealand
Telephone	+64 9 920 2410
Contact person	Mike Roberts
E-mail	mike.roberts@husqvarnagroup.com
Emergency	Contact the Poisons Information Centre; phone 0800 764 766

Section 2: Hazard identification

Classification of the hazardous chemical		
Physical hazards	Flammable liquids	Category 4
Health hazards	Not classified.	
Environmental hazards	Not classified.	
Label elements, including precautionary statements		
Hazard symbol(s)	None.	
Signal word	Warning	
Hazard statement(s)	Combustible liquid.	
Precautionary statement(s)		
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	In case of fire: Use appropriate media to extinguish.	
Storage	Store in a well-ventilated place.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Other hazards which do not result in classification	None.	
Supplemental information	None.	

Section 3: Composition/information on ingredients

Substance or mixture	Mixture		
Chemical property	CAS Number	Concentration (%)	
Highly refined mineral oil	-	25 - =<50	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		10 - <20	
Composition comments	All concentrations are in percent by weight.		
	IP346 method DMSO extract for base oil substances: <3.0%.		

Section 4: First-aid measures

Description of necessary first aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Symptoms caused by exposure	Exposure may cause temporary irritation, redness, or discomfort.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Extinguishing media to avoid	Do not use water jet as an extinguisher, as this will spread the fire.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	During fire, gases hazardous to health may be formed.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazards from combustion products	Fumes, smoke, carbon monoxide and other products of incomplete combustion.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

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

Section 7: Handling and storage

Precautions for safe handling Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

Section 8: Exposure controls/personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

Product	Type	Value	Form
Oil mist, mineral	TWA	5 mg/m ³	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

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

Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber. Use gloves with breakthrough time of 60 minutes. Minimum glove thickness 0.17 mm.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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. Contaminated work clothing should not be allowed out of the workplace.

Section 9: Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Oily liquid.
Colour	Blue. Clear.
Odour	Slight.
Odour threshold	Not available.
pH	Material is non soluble in water.
Melting point/freezing point	Not determined.
Initial boiling point and boiling range	> 300 °C (> 572 °F)
Flash point	80 °C (176 °F) Closed cup ASTM D93
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not determined.
Explosive limit – upper (%)	Not determined.
Vapour pressure	0.1 - 0.3 kPa Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	
Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture.
Auto-ignition temperature	> 300 °C (> 572 °F)
Decomposition temperature	> 300 °C (> 572 °F)
Kinematic viscosity	53.9 mm²/s (40 °C (104 °F)) 8.9 mm²/s (100 °C (212 °F))
Other physical and chemical parameters	
Density	0.87 g/cm³ ASTM D4052
Pour point	-48 °C (-54.4 °F) ASTM D97

Section 10: Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

Section 11: Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics Exposure may cause temporary irritation, redness, or discomfort.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Highly refined mineral oil (CAS -)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
<i>Aerosol</i>		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
<u>Subacute</u>		
Inhalation		
<i>Aerosol</i>		
NOAEL	Rat	> 980 mg/m ³ , 28 days (OECD 412)
<u>Subchronic</u>		
Dermal		
NOAEL	Rat	> 2000 mg/kg, 90 days (OECD 411)
Oral		
LOAEL	Rat	125 mg/kg bw/day, 90 days (OECD 408)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg (OECD 402)
Inhalation		
<i>Vapour</i>		
LC50	Rat	8300 mg/m ³ , 4 hours
Oral		
LD50	Rat	> 5000 mg/kg (OECD 401)

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

Highly refined mineral oil

Result: Non-irritant
Species: Rabbit
Test Duration: 72 hours
Observation Period: 7 days
Notes: Erythema
Result: Non-irritant
Species: Rabbit
Test Duration: 72 hours
Observation Period: 7 days
Notes: Oedema

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Eye

Highly refined mineral oil

Result: Non-irritant

Species: Rabbit

Test Duration: 48 hours

Observation Period: 72 hours

Respiratory irritation

High mist concentrations may cause irritation of respiratory tract.

Respiratory or skin sensitisation**Respiratory sensitisation**

Not a respiratory sensitiser.

Skin sensitisation

This product is not expected to cause skin sensitisation.

Sensitisation

Highly refined mineral oil

Result: Negative

Species: Guinea pig

Germ cell mutagenicity

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

Germ cell mutagenicity: Micronucleus

Highly refined mineral oil

Result: Negative

Species: Mammal

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Highly refined mineral oil

(OECD 453)

Result: Negative

Species: Mouse

Organ: Skin

Test Duration: 78 weeks

ACGIH Carcinogens

Highly refined mineral oil (CAS -)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Highly refined mineral oil (CAS -)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Reproductivity

Highly refined mineral oil

1000 mg/kg

Result: NOEL

Species: Rat

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Narcotic effects

No data available.

Chronic effects

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

Section 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.

Components**Species****Test Results**

Highly refined mineral oil (CAS -)

Aquatic*Acute*

Algae

NOEL

Pseudokirchneriella subcapitata

>= 100 mg/l, 72 hours

Crustacea

EL50

Daphnia magna

> 10000 mg/l, 48 hours

Fish

LL50

Pimephales promelas

> 100 mg/l, 96 hours

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Aquatic*Acute*

Algae

IC50

Algae

> 1000 mg/l, 72 hours

Components		Species	Test Results
Crustacea	EC50	Daphnia	> 1000 mg/l, 48 hours
Fish	LC50	Fish	> 1000 mg/l, 96 hours

Persistence and degradability The product is expected to be biodegradable.

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 89.8 %
< 2% aromatics

Bioaccumulative potential No data available.

Partition coefficient

n-octanol / water (log Kow)

Bioconcentration factor (BCF)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% 44 - 5362
aromatics

Mobility in soil No data available.

Distribution

Octanol/water distribution coefficient log DOW

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, > 3
< 2% aromatics

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

Section 13: Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose 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 Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Special precautions to be taken during disposal Dispose in accordance with all applicable regulations.

Method of disposal that should not be used None known.

Section 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 established.

Section 15: Regulatory information

Applicable regulations New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].

HSNO - Lubricants (Combustible) Group Standard 2020 [HSR002602]

International regulations

Stockholm Convention

Not listed.

Rotterdam Convention

Not listed.

Montreal Protocol

Not listed.

Kyoto Protocol

Not listed.

Basel Convention

Not listed.

Section 16: Other information**References**

ECHA: European Chemical Agency.
ECHA CHEM
IARC Monographs. Overall Evaluation of Carcinogenicity

Issued by

Not available.

Prepared by

Not available.

Disclaimer

Husqvarna cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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