



SAFETY DATA SHEET

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 Australia Pty Ltd
Address	4 Pioneer Avenue, Tuggerah NSW 2252
Country	Australia
Telephone	+61 2 4352 7400
Contact person	Jason Bezzina
E-mail	jason.bezzina@husqvarnagroup.com
Emergency	Contact Poisons Information Centre; phone 13 12 26

Section 2 - Hazard(s) identification

Classification of the hazardous chemical	
Physical hazards	Flammable liquids Category 4
Health 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. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

Other hazards which do not result in classification None known.

Section 3 - Composition and information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Highly refined mineral oil	-	25 - =<50
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		10 - <20

Composition comments IP346 method DMSO extract for base oil substances: <3.0%. All concentrations are in percent by weight.

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 Treat symptomatically.

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing equipment Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing equipment Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Hazchem code None.

General fire hazards Combustible liquid.

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 and 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/m3	Inhalable fraction.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Product	Type	Value	Form
Oil mist, mineral	TWA	5 mg/m3	Respirable fraction.

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

Control banding Not established.

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, such as 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 suitable protective 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.

Section 9 - Physical and chemical properties

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.

Boiling point and boiling range > 300 °C (> 572 °F)

Flash point 80 °C (176 °F) Closed cup ASTM D93

Evaporation rate Not determined.

Upper/lower explosive limits

Explosion limit - lower (%) Not determined.

Explosion 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

Solubility (water) Insoluble in water.

Flammability (solid, gas)	Not applicable.
Partition coefficient: n-octanol/water	Not applicable, product is a mixture.
Auto-ignition temperature	> 300 °C (> 572 °F)
Decomposition temperature	> 300 °C (> 572 °F)
Viscosity	53.9 cSt (40 °C (104 °F)) 8.9 cSt (100 °C (212 °F))
Particle characteristics	Not available.
Data relevant with regard to physical hazard classes	No relevant additional information available.
Other physical and chemical parameters	
Density	0.87 g/cm ³ 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 possible 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.

Early onset symptoms related to exposure Exposure may cause temporary irritation, redness, or discomfort.

Delayed health effects from exposure Prolonged exposure may cause chronic 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)

Components	Species	Test Results
Subchronic		
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		
Acute		
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/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 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.

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		
<i>Acute</i>		
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		
<i>Acute</i>		
Algae	IC50	Algae > 1000 mg/l, 72 hours
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, < 2% aromatics 89.8 %

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Bioconcentration factor (BCF)

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

Mobility in soil No data available.

Distribution

Octanol/water distribution coefficient log DOW

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

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.
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.

Section 14 - Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

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

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

High Volume Industrial Chemicals (HVIC)

Not listed.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

International regulations

Stockholm Convention

Not listed.

Rotterdam Convention

Not listed.

Kyoto Protocol

Not listed.

Montreal Protocol

Not listed.

Basel Convention

Not listed.

Section 16 - Any other relevant information

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Key abbreviations or acronyms used ADG: Australian Dangerous Goods.
EC50: Effective Concentration 50%.
EL50: Effective level, 50%.
IATA: International Air Transport Association.
IC50: Inhibition Concentration 50%.
IMDG Code: International Maritime Dangerous Goods Code.
LC50: Lethal Concentration 50%.
LD50: Lethal Dose, 50%.
LL50: Lethal level, 50%.
LOAEL: Lowest observed adverse effect level.
MARPOL: International Convention for the Prevention of Pollution from Ships.
NOAEL: No observed adverse effect level.
NOEL: No Observed Effect Level.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

References ECHA: European Chemical Agency.

ECHA CHEM

IARC Monographs. Overall Evaluation of Carcinogenicity

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