

SAFETY DATA SHEET

Section 1: Identification

Product identifier Husqvarna 2-Stroke Oil LS+

Other means of identification

Product code 576 74 17-02 (1L), 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

CountryNew ZealandTelephone+64 9 920 2410Contact personColin Stimpson

E-mail colin.stimpson@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 propertyCAS NumberConcentration (%)Distillates (petroleum), hydrotreated heavy paraffinic64742-54-7≥25 - ≤50Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics</td>-≥10 - <20</td>Mineral oilVarious≤5

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

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.

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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

Medical attention and special treatment

Direct contact with eyes may cause temporary irritation.

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 (CO2).

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 Move containers from fire area if you can do so without risk. **procedures**

Protection of fire-fighters
Hazards from combustion

products

Specific methods

Fumes, smoke, carbon monoxide and other products of incomplete combustion.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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 personnelDo 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

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

SDS.

Environmental precautions

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 breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. 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

5 mg/m3

the SDS).

Section 8: Exposure controls/personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Oil mist, mineral

New Zealand. WES. (Workplace Exposure Standards)

Product	Туре	Value	Form
Oil mist, mineral	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
US. ACGIH Threshold Limit Valu Product	es Type	Value	Form
Oil mist. mineral	TWA	5 mg/m3	Inhalable fraction.

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TWA

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

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)

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

Skin protection

Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber. Use gloves with Hand protection

breakthrough time of 60 minutes. Minimum glove thickness 0.17 mm.

Wear appropriate chemical resistant clothing. Other

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.

Material is non soluble in water. pН

-48 °C (-54.4 °F) Melting point/freezing point Initial boiling point and boiling > 300 °C (> 572 °F)

range

> 70 °C (> 158 °F) Closed cup ASTM D93 Flash point

Not determined. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not determined. Explosive limit - upper Not determined.

(%)

< 0.01 kPa Vapour pressure Not determined. Vapour density Not determined. Relative density

Solubility(ies)

Solubility (water) Insoluble in water Partition coefficient Not determined.

(n-octanol/water)

> 300 °C (> 572 °F) **Auto-ignition temperature 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 0.89 g/cm3 Density

Section 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability**

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.

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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 Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

<u>Acute</u>

Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

Aerosol

LC50 Rat > 5 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

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

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

Serious eye

irritation

High mist concentrations may cause irritation of respiratory tract.

Respiratory irritation Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity

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

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Mineral oil (CAS Various)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Mineral oil (CAS Various) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

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

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Aquatic

Acute

Algae NOEL Pseudokirchneriella subcapitata > 100 mg/l, 72 hours

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Components		Species	Test Results
Crustacea	EL50	Daphnia magna	> 10000 mg/l, 48 hours
Fish	LL50	Pimephales promelas	> 100 mg/l, 96 hours
Hydrocarbons, C10-C13, n-alkar	nes, isoalkane	es, cyclics, < 2% aromatics (CAS -)	
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	> 1000 mg/l, 3 days
	LC50	Green algae (Selenastrum capricornutum)	> 1000 mg/l, 3 days
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 2 days
Fish	LC50	Rainbow trout	> 1000 mg/l, 4 days
Persistence and degradability	The prod	uct is expected to be biodegradable	

Persistence and degradability

The product is expected to be biodegradable.

Bioaccumulative potential No data available. Mobility in soil No data available.

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.

Dispose in accordance with local regulations. Empty containers or liners may retain some product Residual waste

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

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

Section 15: Regulatory information

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP Applicable regulations

8-1 09-06].

HSNO - Lubricants (Combustible) Group Standard 2017 [HSR002602]

New Zealand Inventory of Chemicals (NZIoC): Registration status

Not established.

Distillates (petroleum), hydrotreated heavy paraffinic May be used as a single component chemical under an

(CAS 64742-54-7) appropriate group standard

Mineral oil (CAS Various) May be used as a single component chemical under an

appropriate group standard

Section 16: Other information

References ECHA CHEM

IARC Monographs. Overall Evaluation of Carcinogenicity

ECHA: European Chemical Agency.

Issued by

Not available.

Prepared by

Not available.

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Disclaimer Husqvarna AB 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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