

SAFETY DATA SHEET

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), 584 13 65-01 (0.4L)

Recommended use of the chemical and restrictions on use

Recommended use Lubrication of 2-stroke engine.

Restrictions on useUse in accordance with supplier's recommendations.

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 Mike Enderby

E-mail mike.enderby@husqvarnagroup.com

Emergency Contact Poisons Information Centre; phone 13 12 26

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.

Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention Not assigned.

Response Not assigned.

Storage Not assigned.

Disposal Not assigned.

Other hazards which do not None known.

result in classification

Supplemental information None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥50 - ≤75
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	_	≥10 - <20
Mineral oil	Various	≤5
Amines, polyethylenepoly-,reaction product with succinic anhydride polyisobutenyl derivatives	84605-20-9	≤3

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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%.

4. First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Direct contact with eyes may cause temporary irritation.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

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

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

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 fire

fighters

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

No unusual fire or explosion hazards noted.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the For emergency responders 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. Put material in suitable, covered, labeled

containers. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

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

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8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

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

Product Type Value

Oil mist, mineral TWA 5 mg/m3

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment)

ProductTypeValueFormOil mist, mineralTWA5 mg/m3Mist.

US. ACGIH Threshold Limit Values

 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)

ProductTypeValueFormOil mist, mineralTWA5 mg/m3Respirable fraction.

Biological limit valuesNo 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.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. 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.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Oily liquid.
Colour Blue. Clear.
Odour Slight.

Odour threshold Not available.

pH Not available.

Melting point/freezing point -48 °C (-54.4 °F)

Initial boiling point and boiling > 300 °C (> 572 °F)

range

Flash point > 70.0 °C (> 158.0 °F) Closed cup ASTM D93

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit – upper

Not available.

(%)

Vapour pressure < 0.01 kPa (room temperature)

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Vapour density Not available.

Relative density 0.866

Solubility(ies)

Solubility (water) Insoluble in water.

Partition coefficient Not available.

(n-octanol/water)

 $\begin{tabular}{lll} \textbf{Auto-ignition temperature} &> 300 \ ^{\circ}\text{C} \ (> 572 \ ^{\circ}\text{F}) \\ \textbf{Decomposition temperature} &> 300 \ ^{\circ}\text{C} \ (> 572 \ ^{\circ}\text{F}) \\ \textbf{Viscosity} &8.9 \ ^{\circ}\text{C} \ (100 \ ^{\circ}\text{C} \ (212 \ ^{\circ}\text{F})) \\ \end{tabular}$

53.9 cSt (40 °C (104 °F))

Other physical and chemical parameters

Explosive properties Not explosive. **Oxidising properties** Not oxidising.

10. Stability and reactivity

ReactivityThe 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

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

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 Expected to be a low ingestion hazard.

Symptoms related to exposure Direct contact with eyes may cause temporary irritation.

Acute toxicity

Components Species Test Results

Amines, polyethylenepoly-, reaction product with succinic anhydride polyisobutenyl derivatives (CAS 84605-20-9)

Acute Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/irritation** Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation The product contains a small amount of sensitising substance which may provoke an allergic

reaction among sensitive individuals.

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

Distillates (petroleum), hydrotreated heavy paraffinic A4 Not classifiable as a human carcinogen.

(CAS 64742-54-7)

Mineral oil (CAS Various)

A4 Not classifiable as a human carcinogen.

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IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), hydrotreated heavy paraffinic 3 Not classifiable as to carcinogenicity to humans.

(CAS 64742-54-7)

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

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

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Prolonged and repeated contact with used oil may cause serious skin diseases, such as Chronic effects

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.

Species Test Results Components

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

Aquatic Acute

EC50 Green algae (Selenastrum > 1000 mg/l, 3 days Algae

capricornutum)

LC50 Green algae (Selenastrum > 1000 mg/l, 3 days

capricornutum)

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 2 days Fish LC50 > 1000 mg/l, 4 days Rainbow trout

Persistence and degradability

The product is expected to be biodegradable.

Bioaccumulative potential

No data available.

Mobility in soil The product is immiscible with water and will spread on the water surface.

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

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Disposal methods

contents/container in accordance with local/regional/national/international regulations.

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).

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

disposal.

14. Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

15. Regulatory information

Safety, health and environmental regulations

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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 (23/12/2011).

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

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

1000 - 9999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

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.

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

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

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Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

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Key abbreviations or acronyms used

EC50: Effective Concentration, 50%. LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%. LL50: Lethal level, 50%.

NOEC: No observed effect concentration.

NOEL: No observed effect level. PBT: Persistent, bioaccumulative, toxic. vPvB: very Persistent, very Bioaccumulative.

References ECHA CHEM

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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