

Section 1: Identification

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| Product identifier | Husqvarna 2-Stroke Oil HP |
| Other means of identification | |
| Product code | 587 80 85-01 (0.1L.), 587 80 85-10 (1L.), 587 80 85-11 (1L.), 587 80 85-12 (1L.), 587 80 85-20 (4L.), 587 80 85-30 (20L.), 587 80 85-40 (208L.) |
| Recommended use of the chemical and restrictions on use | |
| Recommended use | Lubrication of 2-stroke engine. |
| Restrictions on use | Use in accordance with supplier's recommendations. |
| 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

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|------------------------------|-----------------|
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| Environmental hazards | Not classified. |

Label elements, including precautionary statements

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| 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 result in classification None.

HSNO classification The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Supplemental information Safety data sheet available on request.

Section 3: Composition/information on ingredients

Substance or mixture Mixture

| Chemical property | CAS Number | Concentration (%) |
|----------------------------|------------|-------------------|
| Hydrocarbons, low viscous | 64742-46-7 | 10 - < 20 |
| Polyisobutylene derivative | Polymer | 1 - < 5 |

Composition comments Mineral oil with additives. The mineral oils in the product contain <3% DMSO extract (IP 346).

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

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 | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. |
| 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. Wash contaminated clothing before reuse. |
| 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. 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. |

Section 5: Fire-fighting measures

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| 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

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| For non-emergency personnel | Wear appropriate personal protective equipment. |
| 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.

Other issues relating to spills and releases Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. 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.

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 CAUTION
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

New Zealand. WES. (Workplace Exposure Standards)

| Product | Type | Value | Form |
|-------------------|------|----------------------|-------|
| Oil mist, mineral | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |

US. ACGIH Threshold Limit Values

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

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

| Product | Type | Value |
|-------------------|------|---------------------|
| Oil mist, mineral | TWA | 5 mg/m ³ |

Biological limit values

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

Appropriate engineering controls

Good general ventilation 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 Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Glove material: Nitrile butyl rubber (NBR). Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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 Liquid.

Colour Blue.

Odour Characteristic.

Odour threshold Not available.

pH Material is non soluble in water.

Melting point/freezing point Not determined.

Initial boiling point and boiling range Not determined.

Flash point 145 °C (293 °F) (DIN EN ISO 2592)

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 Not determined.

Vapour density Not determined.

Relative density Not determined.

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient (n-octanol/water) Not applicable, product is a mixture.

Auto-ignition temperature Not determined.

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| Decomposition temperature | Not determined. |
| Kinematic viscosity | 63 mm ² /s (40 °C) (DIN EN ISO 3104) |
| Other physical and chemical parameters | |
| Density | 0.87 g/cm ³ (15 °C) (DIN EN ISO 12185) |

Section 10: Stability and reactivity

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| 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

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| 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. |

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

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| Acute toxicity | Not expected to be acutely toxic. |
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| Components | Species | Test Results |
|---|--|------------------------------------|
| Hydrocarbons, low viscous (CAS 64742-46-7) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours |
| Inhalation | | |
| <i>Aerosol</i> | | |
| LC50 | Rat | > 5266 mg/m ³ , 4 Hours |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |
| 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. | |
| 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 | | |
| Not available. | | |
| IARC Monographs. Overall Evaluation of Carcinogenicity | | |
| Not listed. | | |
| Reproductive toxicity | This 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. | |

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| Narcotic effects | None known. |
| 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 |
|--|---------|-----------|----------------------------------|
| Hydrocarbons, low viscous (CAS 64742-46-7) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | LL50 | Crustacea | > 3183 mg/l, 48 hours |
| Fish | LL50 | Fish | > 1028 mg/l, 96 hours (OECD 203) |
| Polyisobutylene derivative (CAS Polymer) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia | > 101 mg/l, 48 hours |
| Fish | LC50 | Fish | 31 mg/l, 96 hours |

Persistence and degradability Expected to biodegrade slowly.

Bioaccumulative potential No data available.

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

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 This Safety Data Sheet follows the format prescribed in the Hazardous Substances (Safety Data Sheets) Notice 2017, as amended.

Section 16: Other information

References ECHA CHEM

Issued by

Company name Husqvarna AB

Prepared by

Not available.

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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