

Section 1: Identification

Product identifier	Husqvarna 4-Stroke Oil SAE 30
Other means of identification	
Product code	577 41 92-01 (0.6L), 577 41 97-01 (1.4L), 577 41 92-20 (208L)
Recommended use of the chemical and restrictions on use	
Recommended use	Lubrication of 4-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	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 result in classification None.

Supplemental information Safety data sheet available on request.

Section 3: Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	1-<2.5

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 Direct contact with eyes may cause temporary irritation.

Medical attention and special treatment Treat symptomatically.

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 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 None.

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 Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. For personal protection, see 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. The product is insoluble in water.

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 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.

Section 7: Handling and storage

Precautions for safe handling Observe good industrial hygiene practices. Avoid prolonged exposure. Do not cut or weld on empty drums unless they are thoroughly cleaned. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

Conditions for safe storage, including any incompatibilities Store in 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. OELs (Workplace Exposure Standards and Biological Exposure Indices)

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

US. ACGIH Threshold Limit Values (TLV)

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

Product	Type	Value
Oil mist, mineral	TWA	5 mg/m3
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Exposure guidelines	Follow standard monitoring procedures.	
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	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Full contact: Glove material: Nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.33 mm. Full contact: Glove material: Nitrile. Use gloves with breakthrough time of 30 minutes. Minimum glove thickness 0.11 mm.	
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	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

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Yellow - Brown.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not applicable.
Melting point/freezing point	Not determined.
Initial boiling point and boiling range	> 320 °C (> 608 °F)
Flash point	> 220 °C (> 428 °F) (DIN ISO 2592)
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	0.6
Explosive limit – upper (%)	6.5
Vapour pressure	Not determined.
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	Not determined.
Decomposition temperature	Not determined.
Kinematic viscosity	79.2 mm²/s (ASTM D7279) (40 °C (104 °F))
Other physical and chemical parameters	
Density	0.85 - 0.89 g/cm³ (DIN EN ISO 12185) (15 °C)

Section 10: Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. 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	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 Not expected to be acutely toxic.

Product	Species	Test Results
Husqvarna 4-Stroke Oil SAE 30 (CAS Mixture)		
Acute		
Dermal		
ATE		> 2000 mg/kg Calculated
Inhalation		
<i>Vapour</i>		
ATE		> 20 mg/l Calculated
<i>dust/mist</i>		
ATE	Rabbit	> 5 mg/l Calculated
Oral		
ATE		> 2000 mg/kg Calculated

Components	Species	Test Results
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9)		
Acute		
Dermal		
LD50	Rabbit	> 20000 mg/kg, 24 Hours
Oral		
LD50	Rat	3080 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 sensitizer.

Skin sensitisation Based on available data, the classification criteria are not met.

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

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.

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
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.
Persistence and degradability	Expected to be inherently biodegradable.
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.
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).
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. Not applicable.
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 applicable.

Section 15: Regulatory information

Applicable regulations	HSNO: Non-hazardous according to the Hazardous Substances and New Organisms Act 1996 (HSNO 1996) This Safety Data Sheet follows the format prescribed in the Hazardous Substances (Safety Data Sheets) Notice 2017, as amended.
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New Zealand Inventory of Chemicals (NZIoC): Registration status

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9)	Does not have individual approval but may be used under an appropriate group standard
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Section 16: Other information

References
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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