



# SAFETY DATA SHEET

## 1. Product and company identification

<b>Product name</b>	<b>McCulloch 2-Stroke Oil Low Smoke</b>
<b>Product code</b>	577 61 64-02 (1L), 577 61 64-07 (0,1L), 531 02 48-02 (1L), 531 02 48-07 (0.1L), 577 61 64-07 (0,1L)
<b>Supplier</b>	Husqvarna New Zealand Ltd
<b>Address</b>	51 Aintree Avenue, Mangere, Auckland 2022
<b>Country</b>	New Zealand
<b>Telephone</b>	+64 9 920 2410
<b>Contact person</b>	Richard Cuthbert
<b>E-mail</b>	richard.cuthbert@husqvarnagroup.com
<b>Emergency</b>	Contact the Poisons Information Centre; phone 0800 764 766

## Recommended use and Limitations on use

<b>Recommended use</b>	Lubrication of 2-stroke engine.
<b>Limitations on use</b>	Use in accordance with supplier's recommendations.

## 2. Hazards identification

<b>GHS classification</b>	
<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### Label elements

<b>Symbols</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.

### Precautionary statements

<b>Prevention</b>	Not assigned.
<b>Response</b>	Not assigned.
<b>Storage</b>	Not assigned.
<b>Disposal</b>	Not assigned.

**Supplemental information** None.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

<b>Chemical property</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
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

**Composition comments** IP346 method DMSO extract for base oil substances: <3.0%.

## 4. First aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Potential delayed effects</b>	Direct contact with eyes may cause temporary irritation.
<b>Personal protection for first-aid responders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Notes to physician</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Extinguishing media to avoid</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>HAZCHEM Code Number</b>	None.
<b>Specific hazards during fire fighting</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Protection of fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Hazards from combustion products</b>	Fumes, smoke, carbon monoxide and other products of incomplete combustion.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Spill cleanup methods</b>	<p>The product is immiscible with water and will spread on the water surface.</p> <p>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.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

## 7. Handling and storage

### Handling

<b>Precautions</b>	Use personal protection recommended in Section 8 of the SDS.
<b>Safe handling advice</b>	Avoid prolonged exposure. Observe good industrial hygiene practices. 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.
<b>Prevention of fire and explosion</b>	No specific recommendations.
<b>Local and general ventilation</b>	Provide adequate ventilation.

### Storage

<b>Suitable storage conditions</b>	Store away from incompatible materials (see Section 10 of the SDS).
<b>Incompatible materials</b>	Strong oxidising agents. For further information, please refer to section 10 of the SDS.
<b>Safe packaging materials</b>	Store in original tightly closed container.

## 8. Exposure controls/personal protection

### Workplace exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Product	Type	Value	Form
OIL MIST (MINERAL)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

  

Product	Type	Value	Form
OIL MIST (MINERAL)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

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

Product	Type	Value	
OIL MIST (MINERAL)	TWA	5 mg/m <sup>3</sup>	

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

Product	Type	Value	Form
OIL MIST (MINERAL)	TWA	5 mg/m <sup>3</sup>	Mist.

**Biological limit values**

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

**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.

**Personal protective equipment****Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection**

Wear appropriate chemical resistant gloves.

**Skin protection**

Wear suitable protective clothing.

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Radioactive or thermal hazards**

Follow standard monitoring procedures.

**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.

**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**

Not available.

**Boiling point, initial boiling point, and boiling range**

> 300 °C (> 572 °F)

**Flash point**

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

**Auto-ignition temperature**

> 300 °C (> 572 °F)

**Flammability (solid, gas)**

Not applicable.

**Explosive limit - lower (%)**

Not available.

**Explosive limit – upper (%)**

Not available.

**Vapour pressure**

< 0.01 kPa (room temperature)

**Vapour density**

Not available.

**Evaporation rate**

Not available.

**Relative density**

0.863

**Density**

Not available.

**Solubility(ies)****Solubility (water)**

Insoluble in water.

**Partition coefficient (n-octanol/water)**

Not available.

**Decomposition temperature**

> 300 °C (> 572 °F)

**Viscosity**

8.42 cSt (100 °C (212 °F))  
50.7 cSt (40 °C (104 °F))

**Other data****Explosive properties**

Not explosive.

**Oxidising properties**

Not oxidising.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

## 11. Toxicological information

### Acute toxicity

#### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Amines, polyethylenepoly-,reaction product with succinic anhydride polyisobutenyl derivatives (CAS 84605-20-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 5 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
<b>Routes of exposure</b>	Skin contact. Eye contact. Inhalation.	
<b>Symptoms</b>	Direct contact with eyes may cause temporary irritation.	
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Respiratory sensitizer</b>	Not a respiratory sensitiser.	
<b>Skin sensitizer</b>	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	3	Not classifiable as to carcinogenicity to humans.
Mineral oil (CAS various)	3	Not classifiable as to carcinogenicity to humans.
<b>Toxic to reproduction</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Chronic effects</b>	Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.	

Relevant negative data No data available.

## 12. Ecological information

### Ecotoxicological data

Components		Species	Test results
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)			
<b>Aquatic</b>			
<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 (CAS -)			
<b>Aquatic</b>			
<i>Acute</i>			
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

<b>Ecotoxicity</b>	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.
<b>Persistence and degradability</b>	The product is expected to be biodegradable.
<b>Bioaccumulation</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility</b>	The product is immiscible with water and will spread on the water surface.
<b>Other hazardous effects</b>	Oil spills are generally hazardous to the environment.

## 13. Disposal considerations

<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## 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.

## 15. Regulatory information

**Applicable regulations** New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].  
HSNO - Lubricants (Low Hazard) Group Standard 2006 [HSR 002605]

### New Zealand Inventory of Chemicals (NZIoC): Registration status

Amines, polyethylenepoly-,reaction product with succinic anhydride polyisobutenyl derivatives (CAS 84605-20-9)	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	May be used as a single component chemical under an appropriate group standard
Mineral oil (CAS various)	May be used as a single component chemical under an appropriate group standard

## 16. Other information

**References** ECHA CHEM

**Issued by**  
Not available.

**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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**Revision date**

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