

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name or designation of the mixture	McCulloch 4-stroke oil 10W-40
Registration number	-
Synonyms	None.
Product code	57761 64-15 (1,4L), 577 61 64-21 (0,08L), 531 02 48-15 (1,4L)
Issue date	26-October-2012
Version number	01
Revision date	-
Supersedes date	-
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	4-Stroke oil.
llees advised against	Lise in accordance with supplier's recommendations

Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Husqvarna AB
Address	Drottninggatan 2
Telephone	036-14 65 00
e-mail	sds.info@husqvarna.se
Contact person	Accessory Department
1.4. Emergency telephone number	+1-760-476-3961 (Access code 333721)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Hazard summary

zara cannary	
Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	May cause eye irritation on direct contact. May form vapours or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract. Prolonged exposure to oil mist may cause pulmonary disease such as chronic inflammation. Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.
Main symptoms	Irritation of eyes and mucous membranes. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

R-phrases	None.
S-phrases	None.
Authorization number	None.
Supplemental label information	Not applicable.
2.3. Other hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes

Chemical name	% CAS-No. / EC No. REACH Registration No. INDEX No. Notes
Highly refined mineral oil (DMSO-extract < 3% IP 34	> 75 46) -
Classification:	DSD: -
	CLP: -
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters	1 - 2 68649-42-3 zinc salts 272-028-3
Classification:	DSD: Xi;R38-41, N;R51/53
	CLP: Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411
CLP: Regulation No. 1272 DSD: Directive 67/548/EE #: This substance has bee	
Composition comments	The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
SECTION 4: First aid m	easures
General information	If you feel unwell, seek medical advice (show the label where possible).
4.1. Description of first aid m	easures
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
Skin contact	Wash with soap and water. 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	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.
Ingestion	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get immediate medical attention.
4.2. Most important sympton and effects, both acute and delayed	Irritation of eyes and mucous membranes. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.
4.3. Indication of any immediate medical attention and special treatment neede	 Provide general supportive measures and treat symptomatically. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. 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: Firefighting	j measures
General fire hazards	Heating may generate vapors which may form explosive vapor/air mixtures. Material will float and can be re-ignited on surface of water.
5.1. Extinguishing media Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO2). Water fog.
Unsuitable extinguishing media	g Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixtu	By heating and fire, irritating vapours/gases may be formed.

5. from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Special fire fighting procedures	Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective clothing as described in section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.
For emergency responders	Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Environmental manager must be informed of all major releases.
6.3. Methods and material for containment and cleaning up	Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
	Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.
	Small Spills: Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.
SECTION 7: Handling and s	storage
7.1. Precautions for safe handling	Wear protective clothing as described in Section 8 of this safety data sheet. Use only in well-ventilated areas. Avoid inhalation of oil mist and contact with skin and eyes. Do not eat, drink

	or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Keep away from ignition, flame and heat sources. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.
7.3. Specific end use(s)	4-Stroke oil.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Туре	Value	Form	
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Туре	Value	
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	TWA	5 mg/m3	
Czech Republic. OELs. Governm	ent Decree 361		
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Denmark. Exposure Limit Values			
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	TLV	1 mg/m3	Mist.

Finland. Workplace Exposure Limits

Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	TWA	5 mg/m3	Mist.
Germany. DFG MAK List (advisory n the Work Area (DFG)	OELs). Commission for the l	nvestigation of Health Hazar	ds of Chemical Compoun
Components	Туре	Value	Form
Phosphorodithioic acid,	TWA	2 mg/m3	Inhalable fraction.
D,O-di-C1-14-alkyl esters, zinc salts (CAS 68649-42-3)			
		0,1 mg/m3	Respirable fraction.
Greece. OELs (Decree No. 90/1999,	as amended)		
components	Туре	Value	Form
lighly refined mineral oil DMSO-extract < 3% IP 46) (CAS -)	TWA	5 mg/m3	Mist.
lungary. OELs. Joint Decree on Cl	nemical Safety of Workplaces	6	
Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	Ceiling	5 mg/m3	Mist.
celand. OELs. Regulation 154/1999	on occupational exposure li	imits	
Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	TWA	1 mg/m3	Mist.
reland. Occupational Exposure Lir	nits		
Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	TWA	0,2 mg/m3	Inhalable fraction.
taly. OELs			
Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	TWA	5 mg/m3	Inhalable fraction.
Latvia. OELs. Occupational exposu	re limit values of chemical s	ubstances in work environm	ent
Components	Туре	Value	
Highly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	TWA	5 mg/m3	
_ithuania. OELs. Limit Values for (Chemical Substances, Genera	al Requirements (Hygiene No	orm HN 23:2007)
Components	Туре	Value	Form
lighly refined mineral oil DMSO-extract < 3% IP 346) (CAS -)	STEL	3 mg/m3	Fume and mist.
· ·	TWA	1 mg/m3	Fume and mist.
letherlands. OELs (binding)			
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP	TWA	5 mg/m3	Mist.

Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	TLV 1 mg/m3 Mist.		Mist.
Poland. MACs. Minister of L Working Environment	Labour and Social Policy Regarding I	Maximum Allowable Concen	trations and Intensities in
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	Aerosol
Portugal, VLEs, Norm on o	TWA ccupational exposure to chemical ag	5 mg/m3 ents (NP 1796)	Aerosol
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Romania. OELs. Protection	of workers from exposure to chemic	al agents at the workplace	
Components	Туре	Value	
Highly refined mineral oil (DMSO-extract < 3% IP	STEL	10 mg/m3	
346) (CAS -)	TWA	5 mg/m3	
Spain. Occupational Expos	ure Limits	J	
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Sweden. Occupational Expo	osure Limit Values		
Components	Туре	Value	Form
Highly refined mineral oil	STEL	3 mg/m3	Mist.
(DMSO-extract < 3% IP 346) (CAS -)			
	TWA	1 mg/m3	Mist.
ogical limit values ommended monitoring cedures	No biological exposure limits noted for Follow standard monitoring procedur		
ived no-effect level (DNEL)	Not available.		
dicted no effect centrations (PNECs)	Not available.		
Exposure controls			
ropriate engineering	Provide adequate ventilation and min		
trols	explosion-proof equipment. Provide e		nd eye wash facilities.
-	, such as personal protective equipm		
General information	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
Skin protection	Moar protoctivo alouas Nitrila alouas	are recommended but he are	are that the liquid may
- Hand protection	Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.		
- Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.		
Respiratory protection	In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used. Wear air-supplied mask in confined areas. Seek advice from local supervisor.		

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. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Private clothes and working clothes should be kept separately.
Environmental exposure controls	Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

5.1. Information on basic physics	and chemical properties	
Appearance	Brown liquid.	
Physical state	Liquid.	
Form	Liquid.	
Colour	Brown.	
Odour	Oily. Slight.	
Odour threshold	Not available.	
рН	Not applicable.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	> 200 °C (> 392 °F) Cleveland open cup (ASTM D 92)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Vapour pressure	Not available.	
Vapour density	Not available.	
Relative density	0,876 (15 °C) (ASTM D 4052) (Water = 1)	
Solubility(ies)	Negligible.	
Partition coefficient (n-octanol/water)	Log Kow: >3 (Estimated).	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	90 mm2/s (40 °C) (ASTM D 455)	
Explosive properties	Not available.	
Oxidizing properties	Not oxidizing.	
9.2. Other information	No relevant additional information available.	

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes	of exposure	
Ingestion	Ingestion may cause irritation and malaise. Ingestion may result in vomiting; aspiration (breathir of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis.	וg)
Inhalation	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.	
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Skin contact	Prolonged or repeated contact may dry skin and cause dermatitis.		
Eye contact	Contact with eyes may cause irritation.		
Symptoms	Irritation of eyes and mucous membranes. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.		
11.1. Information on toxicologica	al effects		
Acute toxicity	May irritate and cause stomach pain, vomiting, diarrhoea and nausea. Human evidence indicates that the product has very low acute oral, dermal or inhalation toxicity. However, it can produce severe injury if taken into the lung as a liquid, and there may be profound central nervous system depression following prolonged exposure to high levels of vapour.		
Skin corrosion/irritation	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.		
Serious eye damage/irritation	Contact with eyes may cause irritation.		
Respiratory sensitisation	No data available.		
Skin sensitisation	No data available.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classified.		
Reproductive toxicity	No data available.		
Specific target organ toxicity - single exposure	High concentrations: May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	No data available.		
Aspiration hazard	Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.		
Mixture versus substance information	Not available.		
Other information	Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.		
SECTION 12: Ecological in	formation		
12.1. Toxicity	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.		
12.2. Persistence and degradability	Expected to biodegrade slowly.		
12.3. Bioaccumulative potential	The product contains potentially bioaccumulating substances.		
Partition coefficient n-octanol/water (log Kow)	Log Kow: >3 (Estimated).		
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	Not available.		
Mobility in general	The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.		
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.		

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
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	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.

SECTION 14: Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

ΙΑΤΑ

The product is not covered by international regulation on the transport of dangerous goods. **IMDG**

The product is not covered by international regulation on the transport of dangerous goods.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

 Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

 Not regulated.

 Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

 Not listed.

 Directive 94/33/EC on the protection of young people at work

 Not listed.

 Other regulations

 The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Follow national regulation for work with chemical agents.

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SECTION 16: Other information

List of abbreviations	DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.		
References	HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS) ESIS (European chemical Substances Information System)		
Information on evaluation method leading to the classification of mixture	The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.		
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R38 Irritating to skin. R41 Risk of serious damage to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. H315 - Causes skin irritation. H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.		
Training information	Follow training instructions when handling this material.		
Classification according to Regulation (EC) No 1272/2008 as amended			
Health hazards Serious eye damage/eye	irritation	Category 2	H319 - Causes serious eye irritation.
Disclaimor	The information i	in the sheet was written based on the	best knowledge and experience surrently

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.