

SAFETY DATA SHEET

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

1.1. Product identifier Trade name or designation	McCulloch 4-stroke oil 10W-40	
of the mixture		
Registration number	-	
Synonyms	None.	
Product code	57761 64-15 (1,4L), 577 61 64-	21 (0,08L), 531 02 48-15 (1,4L), 577 61 64-26 (1,4L)
Issue date	26-October-2012	
Version number	02	
Revision date	29-August-2013	
Supersedes date	26-October-2012	
1.2. Relevant identified uses of t Identified uses	he substance or mixture and u 4-Stroke oil.	ses advised against
Uses advised against	Use in accordance with supplie	r's recommendations.
1.3. Details of the supplier of the	e safety data sheet	
Supplier		
Company name	Husqvarna AB	
Address	Drottninggatan 2	
Division		
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

Not classified for physical hazards.
Not classified for health hazards.
Not classified for hazards to the environment.
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.
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	Not available.
S-phrases	Not available.
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

3.2. Mixtures	
General information	
Chemical name	% CAS-No. / EC No. REACH Registration No. INDEX No. Notes
Highly refined mineral oil (DMSO-extract < 3% IP 346)	> 75
Classification: DS	D: -
CL	P: -
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zir	1 - 2 68649-42-3
Classification: DS	D: Xi;R38-41, N;R51/53
CL	P: Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411
CLP: Regulation No. 1272/20 DSD: Directive 67/548/EEC. #: This substance has been a	08. ssigned Community workplace exposure limit(s).
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 meas	sures
General information	If you feel unwell, seek medical advice (show the label where possible).
4.1. Description of first aid meas	sures
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 symptoms 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 needed	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 m	ieasures
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	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	By heating and fire, irritating vapours/gases may be formed.
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.

Special protectiveSelf-contained breathing apparatus and full protective clothing must be worn in case of fire.equipment for firefightersSelection of respiratory protection for firefighting: follow the general fire precautions indicated in
the workplace.Special fire fightingMove container from fire area if it can be done without risk. Use water spray to cool unopened

g Move container from fire area if it can be done without risk. Use water spray to cool unopener containers. Cool containers exposed to flames with water until well after the fire is out.

McCulloch 4-stroke oil 10W-40

procedures

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 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	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
ighly refined mineral oil MSO-extract < 3% IP 46) (CAS -)	TWA	5 mg/m3	Mist.
reece. OELs (Decree No. 90/199	9, as amended)		
Components	Туре	Value	Form
ighly refined mineral oil DMSO-extract < 3% IP 46) (CAS -)	TWA	5 mg/m3	Mist.
ungary. OELs. Joint Decree on	Chemical Safety of Workplaces	5	
Components	Туре	Value	Form
ghly refined mineral oil MSO-extract < 3% IP 46) (CAS -)	Ceiling	5 mg/m3	Mist.
eland. OELs. Regulation 154/19	99 on occupational exposure li	mits	
components	Туре	Value	Form
lighly refined mineral oil DMSO-extract < 3% IP 46) (CAS -)	TWA	1 mg/m3	Mist.
eland. Occupational Exposure L	imits		
Components	Туре	Value	Form
lighly refined mineral oil DMSO-extract < 3% IP 46) (CAS -)	TWA	0,2 mg/m3	Inhalable fractior
aly. OELs			
components	Туре	Value	Form
ghly refined mineral oil MSO-extract < 3% IP i6) (CAS -)	TWA	5 mg/m3	Inhalable fractior
atvia. OELs. Occupational expo	sure limit values of chemical s	ubstances in work environme	ent
omponents	Туре	Value	
lighly refined mineral oil DMSO-extract < 3% IP 46) (CAS -)	TWA	5 mg/m3	
Lithuania. OELs. Limit Values for	r Chemical Substances, Genera	al Requirements (Hygiene No	orm HN 23:2007)
Components	Туре	Value	Form
Highly refined mineral oil DMSO-extract < 3% IP 946) (CAS -)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
etherlands. OELs (binding)			
omponents	Туре	Value	Form
lighly refined mineral oil	TWA	5 mg/m3	Mist.
DMSO-extract < 3% IP			
DMSO-extract < 3% IP 346) (CAS -) Norway. Administrative Norms fo	r Contaminants in the Workpla	ce	
DMSO-extract < 3% IP 346) (CAS -)	r Contaminants in the Workpla Type	ce Value	Form

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Portugal. VLEs. Norm on o	ccupational exposure to chemical agen	its (NP 1796)	
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 chemical	agents at the workplace	
Components	Туре	Value	
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Slovakia. OELs. Decree of t agents	the government of the Slovak Republic	concerning protection of I	nealth in work with chemic
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP 346) (CAS -)	TWA	1 mg/m3	Fume and mist.
Spain. Occupational Expos	ure Limits	5 ppm	Fume and mist.
Components	Туре	Value	Form
Highly refined mineral oil (DMSO-extract < 3% IP	STEL	10 mg/m3	Mist.
346) (CAS -)	TWA	5 mg/m3	Mist.
Sweden. Occupational Exp	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.
logical limit values commended monitoring cedures	No biological exposure limits noted for Follow standard monitoring procedures	•	
ived no-effect level (DNEL)	Not available.		
dicted no effect centrations (PNECs)	Not available.		
oosure guidelines	No exposure limits noted for ingredient	(s).	
Exposure controls			
vropriato opginooring	Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Use explosion-proof equipment. Provide easy access to water supply and eye wash facilities.		
propriate engineering trols			
trols vidual protection measures	, such as personal protective equipmen	nt	
trols		nt be chosen according to the C	CEN standards and in
trols vidual protection measures	, such as personal protective equipmen Personal protective equipment should l	nt be chosen according to the C onal protective equipment.	CEN standards and in
trols vidual protection measures General information	, such as personal protective equipmen Personal protective equipment should l discussion with the supplier of the pers	nt be chosen according to the C onal protective equipment.	CEN standards and in
trols vidual protection measures General information Eye/face protection	, such as personal protective equipmen Personal protective equipment should l discussion with the supplier of the pers	nt be chosen according to the C onal protective equipment. or goggles). rre recommended, but be aw	are that the liquid may

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.
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. 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

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Appearance	Brown liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Brown.
Odour	Oily. Slight.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 200,0 °C (> 392,0 °F) Cleveland open cup (ASTM D 92)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive 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

Occupational exposure to the substance or mixture may cause adverse effects.

General information

Information on likely routes of e	xposure		
Ingestion	Ingestion may cause irritation and malaise. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis.		
Inhalation	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.		
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 toxicologic	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/eye 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 information

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 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: **Residual waste** Disposal instructions). **Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

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EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

ds/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

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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.

Not applicable.

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.

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Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.
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Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended 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.	
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.	
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. 			
This SDS contains revisions in the following section(s):	1, 16.			
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	rritation Category 2	H319 - Causes serious eye irritation.		

Disclaimer

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