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SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

McCulloch Chain oil Bio

of the mixture

Registration number -

Synonyms None.

Product code 577 61 64-08 (1L), 577 61 64-09 (5L), 531 02 48-08 (1L), 531 02 48-09 (5L)

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Version number 01
Revision date Supersedes date -

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesVegetable chain/lubricating oil for chainsaws and logging machinery.

Uses advised against Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Supplier

Company nameHusqvarna ABAddressDrottninggatan 2Telephone036-14 65 00

e-mail sds.info@husqvarna.se
Contact person Accessory Department

1.4. Emergency telephone +1-760-476-3961
number (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

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 Direct contact with eyes may cause temporary irritation. May form vapours or oil mists during

mechanical action or at elevated temperatures which may be irritating to respiratory tract.

Prolonged skin contact may cause dermatitis.

Main symptoms May cause eye irritation on direct contact. 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 hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

McCulloch Chain oil Bio SDS EU

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. **Notes** Oils, vegetable 100 68956-68-3 273-313-5

Classification: DSD: -

CIP: -

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

#: This substance has been assigned 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 measures

General information If you feel unwell, seek medical advice (show the label where possible).

4.1. Description of first aid measures

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 Flush eyes immediately with large amounts of water. Remove any contact lenses and open

eyelids wide apart. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. 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

May cause eye irritation on direct contact. 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 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

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. 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, protective equipment and emergency procedures

For non-emergency personnel

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in section 8 of this safety data sheet.

For emergency responders

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.

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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

For personal protection, see section 8. For waste disposal, see section 13.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid inhalation of oil mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. 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. Storage temperature: between 0 °C and 40 °C. Avoid long-term storage at temperatures below -20 °C and above 40 °C.

7.3. Specific end use(s) Vegetable chain/lubricating oil for chainsaws and logging machinery.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Туре	Value	Form	
Oils, vegetable (CAS	TWA	10 mg/m3	Mist.	
68956-68-3)				

Czech Republic. OELs. Government Decree 361

Components	Туре	Value	Form	
Oils, vegetable (CAS	TWA	2 mg/m3	Dust.	
68956-68-3)				

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Туре	Value	Form	
Oils, vegetable (CAS 68956-68-3)	STEL	3 mg/m3	Fume and mist.	
,	TWA	1 mg/m3	Fume and mist.	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Туре	Value	Form	
Oils, vegetable (CAS	TWA	10 mg/m3	Aerosol	
68956-68-3)		-		

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls

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.

Individual protection measures, such as personal protective equipment

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 Risk of contact: Wear safety glasses with side shields (or goggles).

Skin protection

- 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.

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- 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.

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

Appearance Yellow to yellowish brown liquid.

Physical state Liquid. **Form** Liquid.

Colour Yellow to yellowish brown. Odour Rapeseed oil-like. Slight.

Odour threshold Not available. Not applicable. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

230 °C (446 °F) Flash point **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 0.92 (15 °C) (Water = 1)

Solubility(ies) Insoluble. Partition coefficient Not available

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available. **Viscosity** 16 mm2/s (100 °C) 70 mm2/s (40 °C)

Explosive properties Not available. **Oxidizing properties** Not oxidizing

9.2. Other information

Pourable after 96 hours at -30 °C. Pour point

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 Hazardous polymerisation does not occur.

reactions

10.4. Conditions to avoid

Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

decomposition products

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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 (breathing)

of vomitus into lungs must be avoided as even small quantities may result in aspiration

pneumonitis.

Inhalation In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing.

Skin contact Prolonged or repeated contact may dry skin and cause dermatitis.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms May cause eye irritation on direct contact. 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 toxicological effects

Acute toxicity May cause discomfort if swallowed.

Product Species Test results

McCulloch Chain oil Bio (CAS Mixture)

Acute Dermal

LD50 Rabbit > 4000 mg/kg, (OECD 402)

Oral

Germ cell mutagenicity

LD50 Rat > 5000 mg/kg, (OECD 401)

Skin corrosion/irritation Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Skin irritation test (rabbit): Not irritating (OECD 404).

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Ames test: Negative.

Eye irritation test (rabbit): Not irritating (OECD 405).

Respiratory sensitisationNo data available.Skin sensitisationNo data available.

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 No other specific acute or chronic health impact noted.

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

The product is readily biodegradable. BOD: > 95% / 21 days (CEC L-33-A-93).

12.3. Bioaccumulative potential No data available. **Partition coefficient** Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

Mobility in general The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT

and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effectsOil spills are generally hazardous to the environment.

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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 codeThe 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.

IATA

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

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.

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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 15.2. Chemical safety Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

assessment

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 None.

Training information Follow training instructions when handling this material.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

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

available.

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