

# MATERIAL SAFETY DATA SHEET

## 1. NAME OF THE PRODUCT AND COMPANY

<b>Trade name</b>	Universal Outdoor Accessories Bio Chain Oil
<b>Article number</b>	5310248-08 (1L.), 5310248-09 (5L.)
<b>Application</b>	Vegetable chain/lubricating oil for chainsaws and logging machinery.

<b>Supplier</b>	Husqvarna AB
<b>Address</b>	SE 561 82 Huskvarna
<b>Country</b>	Sweden
<b>Telephone</b>	+46 36 14 65 00
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<b>Contact</b>	Anita Cenusa

<b>For emergencies</b>	Contact the Poison Information Centre
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## 2. HAZARDOUS PROPERTIES

### General

The product contains no substances that are featured on the EU list of dangerous substances, (Appendix 1 in the EU directive 67/548/EEC, last amended by commission directive 1999/45/EC).

## 3. COMPOSITION/CLASSIFICATION OF SUBSTANCE

No.	Substance name	EC no.	CAS no.	Content (%)	Marking	R phrases
1	Vegetable based oil				IK	
Table of symbols: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Hazardous to health, Xi=Irritating, E=Explosive, O=Oxidizing, F+=Extremely flammable, F=Very flammable, N=Harmful to the environment, IK=Not subject to classification with respect to hazards to the environment and health.						

See item 16 for a list of the relevant risk phrases.

## 4. FIRST AID

### Inhalation

Not relevant.

### Skin contact

Wash with soap or similar agent and water.

### Eye contact

Rinse using tempered water for at least 10 minutes. Seek medical attention if irritation persists.

### Consumption

Drink water or milk. Do NOT induce vomiting.

## 5. MEASURES IN THE EVENT OF FIRE

### Extinguishing agents

Carbon dioxide (CO<sub>2</sub>), foam, powder.

### Unsuitable extinguishing agents

Water as jet spray.

## 6. MEASURES FOR SPILLS/ACCIDENTAL DISCHARGES

### Measures for avoiding environmental damage

Minimise contamination of drains, surface and groundwater. Absorb major discharges using regular absorption agent for deposition. Transfer the product into a suitable container for disposal at a suitable sight, see item 13. Residue and smaller amounts are washed away with water.

## 7. HANDLING AND STORAGE

### Handling directives

Avoid prolonged and repeated skin contact. Remove splashed clothing.

### Storage

Recommended storage temperature  $\pm 0$  to  $+40^{\circ}\text{C}$ . Long-term storage below  $-20$  and above  $+40^{\circ}\text{C}$  should be avoided. Keep in sealed containers, preferably in original containers.

## 8. RESTRICTING EXPOSURE/PERSONAL PROTECTION MEASURES

### Respiratory protection

Not necessary in ventilated areas. Ensure good ventilation if evaporation occurs.

### Eye protection

Wear suitable eye protection.

### Hand protection

Recommended if soap or suchlike and running water are not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Oil.
<b>Colour</b>	Yellow to yellowish brown.
<b>Odour</b>	Weak, rapeseed related.
<b>Solubility in water</b>	Insoluble.

<b>Density</b>	920 kg/m <sup>3</sup> (15°C)
<b>Flash point</b>	230°C
<b>Boiling point</b>	Not relevant.
<b>Cooling properties</b>	Pourable after 96 hours at $-30^{\circ}\text{C}$
<b>Viscosity</b>	70 mm <sup>2</sup> /s (cSt, 40°C), 16 mm <sup>2</sup> /s (cSt, 100°C)
<b>Vapour pressure</b>	Negligible under normal conditions.

## 10. STABILITY AND REACTIVITY

### Stability

Stable product under normal conditions.

### Avoid the following conditions

High temperatures ( $\gg 100^{\circ}\text{C}$ ), powerful oxidising agents.

### Hazardous reactions/decomposition products

None.

## 11. TOXICOLOGICAL INFORMATION

### Toxicity

Acute oral toxicity (OECD 401): LD<sub>50</sub> rat >5000 mg/kg, i.e. non toxic.  
 Acute dermal toxicity (OECD 402): LD<sub>50</sub> rat >4000 mg/kg, i.e. non toxic.

### Skin contact

Non irritating (OECD 404, rabbit).

### Eye irritation

Non irritating (OECD 405, rabbit).

### Mutagenicity

Non mutagenic (Ames test).

## 12. ECOTOXICOLOGICAL INFORMATION

### Degradability

The product is readily biodegradable as per CEC L-33-A-93 (with >95 % results after 21 days).

## 13. WASTE MANAGEMENT

### Applicable requirements for waste generators

According to local requirements

## 14. TRANSPORT INFORMATION

The chemicals are classified as hazardous goods Yes  No  Not assessed

### Other information

No transportation class.

## 15. APPLICABLE REQUIREMENTS

### Information

The product is not subject to marking as stipulated in the Swedish National Chemicals Inspectorate directives on classification and marking (KIFS 1994:12) and applicable EC directives pertaining to hazardous substances and preparations.

### R phrases/S phrases

None

### Marking/Danger symbol

None

## 16. MISCELLANEOUS INFORMATION

### Information sources

Current legislation at the time of the revision and technical documentation from the raw material supplier, Binol AB.

### List of all relevant risk phrases.

None.

### Revision overview

Issue	Rev. date	Responsible	Amendments
1	29/07/1996	Hanna Svennberg	
2	14/11/2000	Hanna Svennberg	Revised, Sections 1-16
3	16/12/2003	Hanna Svennberg	
4	01/01/2007	Anita Cenusa	Revised, Sections 1,16

### Supplier notes