

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/substance name **Cobiolube Chain**
Identification code
REACH registration number **There is no registration number available for this substance as the substance or its use has been exempted from registration based on Article 2 of the REACH Regulation (EC) No. 1907/2006.**
Cobiolube® Chain has been awarded with European Union's Ecolabel emblem license FI/27/003

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

Purpose of use expressed in writing Chain lubricant
Standard industrial classification (SIC) A2 Forestry and logging
Use categories (UC62) 35 Lubricants and additives
The chemical can be used by the general public
The chemical is used by the general public only

1.3 Details of the supplier of the safety data sheet

Manufacturer

Jarmat Oy
Address Ratapellonkatu 13
Postcode and city/town FI-74120 IISALMI
Post office box
Postcode and city/town
Telephone +358 10 229 3210 , +358 440 363 535
E-mail address matti.kyllonen@jarmat.fi, website: <http://www.jarmat.fi>
Business ID 1634526-5

1.4 Emergency telephone number

General emergency number 112
Poison Information Centre +358 9 471 977/+358 9 4711 (exchange)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance is not classified as hazardous according to European Union legislation.

2.2 Label elements

Labelling (REGULATION (EC) No. 1272/2008)
Not a hazardous substance according to the globally harmonized system (GHS) of classification and labelling.
The product does not need to be labelled in accordance with EU directives or equivalent national regulations.

2.3 Other hazards

Unknown

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Name of main ingredient		CAS, EC or index number	
Name of ingredient	Does not contain substances which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.	CAS, EC or index number	

3.2 Mixtures

Name of substance	CAS, EC or index number	REACH registration number	Concentration	Classification
Does not contain substances which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.				

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Eye contact: Rinse your eyes immediately with plenty of water, also under the eyelids. Check for and remove any contact lenses. Seek medical attention if irritation develops.

Inhalation: Move the exposed person to fresh air.

Skin contact: Rinse with plenty of water. Remove contaminated clothing.

Ingestion: Give water to the exposed person and have him/her drink it. Seek medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

Cyanosis, abdominal pain, drowsiness, diarrhoea, vomiting, headache, irritating effects

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing medium: Use an extinguishing medium suitable for the surrounding fire: carbon dioxide, dry chemicals, foam or water fog.

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Unsuitable extinguishing medium: There are no restrictions on extinguishing media for this mixture.

5.2 Special hazards arising from the substance or mixture

Combustibles: fumes are heavier than air and spread along the floor.
Forms explosive mixtures with air when heated strongly.
Harmful fumes may be formed in a fire.

5.3 Advice for firefighters

Special protective equipment for firefighters: Firefighters must wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Clothing for firefighters (boots, gloves and helmets) conforming to standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: Gases, fumes and fogs can be dispersed by spraying water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Instructions for non-emergency personnel: Do not inhale fumes. Evacuate the danger area, follow the emergency instructions and consult an expert.

For emergency responders: protective equipment (see section 8)

6.2 Environmental precautions

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Absorb with an inert material (see sections 7.2 and 10.5) and place in an appropriate waste disposal container.

6.4 Reference to other sections

Instructions for further treatment (see section 13).

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Instructions for general occupational hygiene: good hygiene practices

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight.

7.3 Specific end use(s)

There are no other methods of use in addition to that specified in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

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8.2 Exposure controls**Engineering controls**

Personal protection is based primarily on technical measures and proper working methods as well as on the use of personal protective equipment. See section 7.1.

Eye/face protection

Protective goggles

Skin protection

Protective clothing

Hand protection

Nitrile butadiene rubber

Respiratory protection

Necessary if fumes are formed.
Recommended filter type A-(P2)

Thermal hazards

No information

Environmental exposure controls

Avoid dispersal of spilt material and runoff and contact with soil, natural waters and sewers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	Liquid, clear
Odour	Mild
Odour threshold	No information
pH	about 8,4
Pour point	<-39 °C Method ASTM D97
Initial boiling point and boiling range	about 100 °C
Flash point	>100 °C Method: ISO 2592
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	<0.0025 mm Hg/ 50 °C
Vapour density	Not available
Relative density	About 1.15
Viscosity index-Procedure A	127 Method ASTM 2270
Partition coefficient: n-octanol/water	log Po/w=-1.76 Method: (experimental) (Lit.) Low accumulation

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Auto-ignition temperature	Information not available
Decomposition temperature	>290 °C
Viscosity	40°C 279,3 mm ² /s Method ASTM D445 100°C 26,96 mm ² /s Method ASTM D 445
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

Ignition temperature >400 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

In case of fire: see section 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Orally: LD50 rat Dose: >12,600 mg/kg (IUCLID)
Symptoms: vomiting, abdominal pain, diarrhoea
Cutaneously: LD50 rabbit Dose: >18,700 mg/kg (IUCLID)

Skin corrosion/irritation

Rabbit No irritation (IUCLID)

Serious eye damage/irritation

Rabbit Does not cause eye irritation (OECD TG 405)

Respiratory or skin sensitisation

Patch test Human being: negative (IUCLID)

Germ cell mutagenicity

No known significant effects or critical hazards

Carcinogenicity

No known significant effects or critical hazards

Reproductive toxicity

No known significant effects or critical hazards

STOT-single exposure

No known significant effects or critical hazards

STOT-repeated exposure

No known significant effects or critical hazards

Aspiration hazard

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Based on the information available, the classification criteria are not met.

Other information

Effect on the body: ingestion of large amounts may cause cyanosis, headache and drowsiness.
Handle in accordance with good occupational hygiene and safety practices.

SECTION 12: ECOLOGICAL INFORMATION	
12.1	Toxicity
	Toxicity: fish LC50 <i>Carassius auratus</i> (goldfish) Dose: >5,000 mg/l Exposure time 24 h (Lit.) Daphnia and other water invertebrates (<i>E. sulcatum</i>) EC5 Dose 3,200 mg/l 72 h (Lit.) EC50 <i>Daphnia magna</i> (water flea) Dose >10,000 mg/l (IUCLID) IC5 <i>Scenedesmus quadricauda</i> (green alga) Dose >10,000 mg/l 7 d (Lit.) EC5 <i>Pseudomonas putida</i> Dose >10,000 mg/l 16 h (Lit.)
12.2	Persistence and degradability
	The substance is highly biodegradable >99% Biological oxygen demand (BOD) 870 mg/g (5 d) Chemical oxygen demand (COD) 1,160 mg/g Theoretical oxygen demand (ThOD) 1,217 mg/g Ratio BOD/ThBOD BOD5 71% Ratio COD/ThBOD 95%
12.3	Bioaccumulative potential
	Log Po/w=-1.76 (experimental); low accumulation.
12.4	Mobility in soil
	Not available
12.5	Results of PBT and vPvB assessment
	The assessment has not been carried out as a chemical safety assessment is not required/has not been implemented.
12.6	Other adverse effects
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SECTION 13: DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods
	Dispose of in accordance with the instructions of local or national waste management authorities or deliver to an authorised waste management company. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with natural waters and soil.
SECTION 14: TRANSPORT INFORMATION	
14.1	UN number
	None
14.2	UN proper shipping name
	None
14.3	Transport hazard class(es)
	No hazard classification according to transport regulations.
14.4	Packing group
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14.5	Environmental hazards
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14.6	Special precautions for user
	Not available

14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
	Not available

SECTION 15: REGULATORY INFORMATION

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

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

15.2	Chemical safety assessment
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A chemical safety assessment has not been carried out for this product.

15.3	Environmental regulations
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SECTION 16: OTHER INFORMATION

Changes to the previous version:9.1 melting and freezing point, boiling point and boiling area, flash point, vapour pressure and viscosity

Key or legend to abbreviations and acronyms

Sources for data

Material safety data sheets of manufacturers

Classification method

List of relevant R and S phrases and/or hazard and precautionary statements

None

Staff training