

Safety data sheet

In accordance with Annex II of REACH Regulation (EC) 1907/2006 and amending Regulation (EU) 453/2010

Product name: Alimak Cog Grease

Date: 2013-11-14

Version number: 2

Part nr: 3001 396-108

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product identifier	Alimak Cog Grease
1.2 Relevant identified uses of the substance or mixture and uses advised against area of use	Lubricant
1.3 Details of the supplier of the Safety data sheet	
Supplier	Alimak Hek AB
Address	Alimakvägen 1, 931 27 Skellefteå
Telephone	+46 (0)910-87 000
E-mail	info@alimakhek.com
Contact person	Christer Lundström
1.4 Emergency telephone number	+46 (0)8 33 12 31 (Swedish Poison Centre)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Skin Sens. 1 - Respiratory or skin sensitisation, H317

Aquatic Chronic 3 - Hazardous to the aquatic environment, H412

Classification according to 67/548/EC or 1999/45/EC

Xi

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Labelling according to Regulation (EU) no 1272/2008 (CLP/GHS)



Warning

Hazard statements

H317 - May cause allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Measures

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

Disposal

P501 - Dispose of contents/container to approved waste disposal facility.

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Contains Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched).

2.3 Other hazards The product does not contain any substances that meet the criteria for classification as PBT- or vPvB-substances.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1

3.2 Mixtures

Substance	CAS-no EG-no Reg-no	Konc. %	Hazard symbol & R-phrases *	Hazard class & category codes	Hazard statements *
Reaction products of bis (2-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched).	931-384-6 - 01-2119493620-38	1-2	Xn; R22 Xi; R41, R43 R51/53	Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Chronic 2	H302 H317 H318 H411
Zincdialkyldithiophosphate	68649-42-3 272-028-3	2-5	Xi; R36 R51/53	Eye Irrit. 2 Aquatic Chronic 2	H319 H411
A, α'-propendinitrilodiolokresol	94-91-7 202-374-2	0,2-1	Xn; R22 Xi; R36/38, R43	Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Chronic 2	H302 H315 H317 H319

*For the wording of the listed R- H- and EUH-statements refer to section 16

The classification is based on data from the chemical supplier and www.ecb.europa.eu (databases).

Description of the symbols abbreviations:

T = Toxic, T + = Very toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, O = Oxidizing, E = Explosive, F = Highly flammable, F + = Extremely flammable, N = Dangerous for the environment

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information Never give fluids or induce vomiting if patient is unconscious. Keep the victim warm and calm. In cases of doubt, or if symptoms persist, seek medical attention.

4.1.2 Inhalation Fresh air.

4.1.3 Skin contact Immediately take off contaminated clothing. Wash with soap and water and rinse skin thoroughly with water. Seek medical advice if symptoms persist.

4.1.4 Eye contact Flush with (lukewarm) water for several minutes. Hold eyelids apart. Remove any contact lenses. Seek medical advice if symptoms persist.

4.1.5 Ingestion Drink several glasses of water or milk. Do NOT induce vomiting. See a doctor.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Inhalation: May be slightly irritating on the respiratory tract. Inhalation of high concentrations may cause nausea, headache, fatigue and dizziness.

4.2.2 Skin contact: May, during prolonged or repeated exposure, be irritating to the skin (redness, pain). Contains substances which may cause allergic symptoms in skin contact.

4.2.3 Eye contact: May cause mild irritation to eyes (pain, redness)

4.2.4 Ingestion: May cause irritation, nausea, stomach pain, vomiting if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Carbon dioxide, dry chemical or foam.

5.1.1 Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

During a fire, noxious/irritant gases, may be released. Do not breathe fumes.

5.3 Advice for fire-fighters Use self-contained breathing apparatus when fighting fires.

5.4 Other Cool containers close to fire with water and move away from fire if it is safe to do so.

Fire residues and contaminated firefighting water must be disposed of according to local regulations.

Avoid release to the environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure good ventilation. Wear protective equipment.

6.2 Environmental precautions

If possible, prevent the product to enter waterways, sewers or land.

6.3 Methods and material for containment and cleaning up

Wipe small amounts with cloth. Absorb/ barricade major spillage with non-combustible materials such as sand, earth.

6.4 Reference to other sections

See section 7 for handling. See section 8 for personal protection. Collected waste is placed in sealed containers and disposed as waste according to section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and clothing.

Follow any handling instructions on the label or product sheet.

Ensure good ventilation, avoid breathing vapors.

Keep container tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place.

Keep away from ignition sources, heat sources, bright sunlight and sources of ignition.

7.3 Specific end use(s) -

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Ensure good ventilation.

8.1.1 Components with exposure limits GESTIS, United Kingdom:

Oil mist, metal working fluids

Limit value - Eight hours: 1 mg/m³

8.2 Exposure controls

8.2.1 General hygiene measures Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation and contact with skin. Wash hands before breaks and after work.

8.2.2 Personal protective equipment:

Always consult a competent provider when selecting personal protective equipment.

8.2.3 Respiratory Protection If ventilation is insufficient, or if the concentration exceeds workplace limits, respiratory protection must be used (mask with P3 filter).

8.2.4 Hand Protection Use chemical resistant gloves. (Material: eg neoprene)

8.2.5 Eye Protection Normally not needed. If risk of splashing, wear safety glasses (goggles).

8.2.6 Skin Protection Wear chemical resistant protective clothing if risk of skin contact.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour	Black
Form	Grease
Odour	Petroleum
Flash point °C	>110-204
Odour threshold	Data not available
pH-value	Not applicable
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Data not available
Flammability	>110-204°C (Cleveland open cup) refers to base oils
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable, but is combustible
Upper/lower explosive limits	Not applicable
Vapour pressure	Very low
Vapour density	Not applicable
Relative density	0.95 - 0.98
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	> 316 °C
Decomposition temperature	Data not available

9.2 Other information No specific.

10. STABILITY AND REACTIVITY

10.1 Reactivity The product is stable under recommended handling and use.

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions None known.

10.4 Conditions to avoid No specific.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition products Carbon dioxide and carbon monoxide

11. TOXIKOLOGICAL INFORMATION

11.1 Information on toxicological effects

See section 4. (Most important symptoms and effects, both acute and delayed)

11.2.1 Toxicological data Information on this preparation are not available.

11.3.1 Effects of overexposure None known

11.3.2 Likely routes of exposure Inhalation, exposure of eyes and skin.

11.3.3 Sensitization This product may cause sensitization by skin contact.

11.3.4 CMR (Carcinogenic, Mutagenic and Reproductive disrupters):

This product is not classified as carcinogenic, mutagenic or toxic for reproduction.

11.3.5 Other Information No

12. EKOLOGICAL INFORMATION

The product is classified as dangerous for the environment. May cause long-term adverse effects for aquatic organisms.

Prevent discharges to surface water and sewer.

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12.1 Toxicity Information on this preparation are not available.

12.2 Persistence and degradability The product contains substances that are not biodegradable.

12.3 Bioaccumulative potential Not considered to bioaccumulate.

12.4 Mobility in soil The product is not water soluble and therefore not expected to be mobile in soil and water.

The fat is lighter than water and floats on the surface when spilled into rivers and lakes.

12.5 Results of PBT and vPvB assessment

The product does not contain any substances that meet the criteria for classification as PBT- or vPvB-substances.

12.6 Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods The product or product residues are classified as hazardous waste under the waste directive 2008/98/EC. Consult local authorities for waste disposal.

13.2 EWC code: Depends on the business area and use eg 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils.

13.3 Packing Empty and cleaned packaging can be recycled.

14. TRANSPORT INFORMATION

14.1 UN-No.: Not applicable

14.2. UN proper shipping name Not applicable

14.3. Transport hazard class(es)

Class: (ADR/RID) Not applicable

Class: (IMDG/IMO) Not applicable

Class: (ICAO/IATA) Not applicable

14.4. Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable

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

Not applicable

14.8 Tunnel restriction code Not applicable

14.9 LQ Not applicable. The product is not classified as a dangerous good under transport legislation (ADR/ RID, DGR and IMDGkoden).

15. REGULATORY INFORMATION

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

Classification according to CLP GESTIS International Limit Values, Directive 2008/98/EC on waste.

15.2 Chemical Safety Assessment No information available.

16. OTHER INFORMATION

16.1 References: Data Sheet from manufacturer. CLP Regulation

www.kemi.se (Databases), GESTIS, www.ecb.europa.eu (databases)

The user of this product must decide if the information in this document is sufficient for the use of the product.

16.2 Version 2: 2013-11-14

This SDS has been made in accordance with Annex II of REACH Regulation (EC) 1907/2006 and amending Regulation (EU) 453/2010

16.3 Explanation of abbreviations ADR: Requirements for the carriage of goods by road.

BCF: Bio Concentration Factor (measure of bioaccumulation of a substance).

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CAS Chemical Abstracts Service number

EC50: Effect Concentration

EC No: A substance number in EINECS, ELINCS or No-Longer Polymers List.

OEL: Occupational exposure limit (maximum acceptable average concentration of an air pollutant in the air inhaled.)

IC50: Median Inhibition Concentration

ID-no: Identification number of classification- and labeling inventory in CLP (art 42)

IMDG: International Maritime Dangerous Goods Code. Requirements for dangerous goods by sea.

KIFS 2005:7: Chemical Inspection regulations on classification and labeling of chemicals.

Koc Distribution constant between water and organic carbon.

LC50: Lethal Concentration

LD50: Lethal Dose

Log Pow: Measurements of bioaccumulation of a chemical.

NOEC: No Observed Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic substances.

REPA Register for product liability and recovery systems for packaging.

vPvB: Very persistent and Very Bioaccumulative Substances.

Hazard statements

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

H412 - Harmful to aquatic life with long lasting effects.

R-Phrases

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

R36/38 - Irritating to eyes and skin.

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.