

Safety Data Sheet according to 1907/2006/EU

1. IDENTIFICATION OF PRODUCT AND SUPPLIER.

Product name and number:

Identification: -

Oil & Grease Cleaner

PR no: In preparation

Vendor: Sirena Soap ApS

Address: Havnøvej 7, 9560 Hadsund

Contact: Morten Heegaard

Telephone: 98 57 18 99

E-mail: ma@sirena-soap.dk

In the event of accident:

Contact doctor or hospital emergency department - take label or this safety data sheet. Doctors can contact the Danish Poisons Information Centre on +45 82 12 12 12.

Identified uses: -

Type of goods/actual function: Water-based mild alkaline degreasing agent.

Product no.: 5300489 - 5300491

Registration No. (if any): -

2. HAZARD IDENTIFICATION

This product is classified as:

Sirena Soap Aps states that the material should not be classified according to Danish Ministry of the Environment classification notice.

Classification: -

Any other hazards: -

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances (Symbol and R-phrases for the pure substance - see item 16)

Any volatile substances are stated in item 8) by ppm/mg/m³.

Name	EINECS/ELINCS	CAS / IUPAC	Concentration	Hazard symbol	R-phrases
Dinatriumtrioxosilikat	229-912-9	10213-79-3	< 5 %	C	R34, R37
Ethylenediaminetetraacetic acid, tetrasodium salt	200-573-9	64-02-08	< 5 %	Xn	R22, R36
Isotridecanoethoxylate	Polymer	-	< 5 %	Xn	R22, R36, R38
Alkyl imidazolium carboxylate	271-704-5	-	< 5 %	Xi	R36

Key Tx=Highly toxic, T=Toxic, C=Corrosive, Xn=Hazardous to health, Xi=Local irritant, E=Explosive, O=Flammable, Fx=Extremely flammable, F=Highly flammable, N=Environmental hazard, Mut=Mutagen, Carc=Carcinogen, Rep=Reproductive toxicity

Declaration: < 5%: Non-ionic and amphoteric tensides and EDTA .

Safety Data Sheet according to 1907/2006/EU

4. FIRST AID MEASURES

Burning	The product is non-combustible.
Inhalation	Take victim out into fresh air. Rest and keep under observation. If discomfort persists: Seek medical attention.
Eyes	Irrigate immediately with water or physiological saltwater for at least 15 minutes. Remove contact lenses and keep eyelids apart. If irritation persists: Seek medical attention. Continue irrigation during transport to doctor/hospital.
Skin	Remove contaminated clothing immediately and wash contaminated skin with copious amounts of water and soap.
Ingestion	Wash mouth out thoroughly and drink copious amounts of water. Keep under observation. If discomfort persists: Seek medical attention.
Information	Show this data sheet to the doctor or hospital emergency department.

5. FIREFIGHTING

Measures to be taken in the event of fire: Non-combustible. Avoid inhalation of fumes. Remove the container if possible or cool with water.

Suitable extinguishing media: Against spreading fire: Water mist, foam, powder, carbon dioxide.

Extinguishing media not to be used for safety reasons: Water jets. (will spread the flames).

Special exposure risks: If the water evaporates because of spreading fire, toxic gases will form (carbonoxides).

Special personal protection aids: Use a positive pressure respirator mask in the event of thick smoke.

Miscellaneous: -

6. ACCIDENTAL RELEASE MEASURES

Safety measures for the protection of personnel: Use the personal protection aids stated in item 8. Limit spread. Ensure good ventilation.

Environmental protection measures: Avoid drainage to sewers – see item 12. Inform the local environmental authorities in the event of release into the external environment.

Cleaning up procedures: Soak up with an inert absorbent or the like. Transfer to a suitable container. Containers must be sealed and labelled properly clearly stating the contents. Flush area thoroughly with water. For more details on tackling spills - see item 13.

7. HANDLING AND STORAGE

Storage: Store in a locked room inaccessible to children and away from foods and beverages, medicines and the like.

Fire risk classification: Non-combustible.

Special uses: See uses - item 1.

Safety Data Sheet according to 1907/2006/EU

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Measures to be taken for use: In the event of workplace instruction in use, ensure that employees are not exposed to effects which can imply a risk to pregnancy or breastfeeding (ref. the Danish Labour Inspection Authority's statutory order on the performance of work). Avoid splashes when handling an open container. Access to eyewash bottles. Avoid inhalation of fumes. Ensure effective ventilation, avoid contact with the skin, eyes and clothes. Wash immediately if the skin becomes contaminated. Change contaminated clothes immediately. Moisture cream prevents the skin drying out and is recommended when finishing work with substance.

Measures for limiting exposure to the environment: -

Limit values for exposure: -

Name	ppm	mg/m ³	Comment
2-methoxymethylethoxy propanol	50 ppm	300 mg/m ³	-

The limit values stated comply with the Danish Labour Inspection Authority's list of limit values. The limit value has been administratively fixed for substances marked with *.
(Key L= max. value, H= substance can be absorbed through the skin, T= tentative limit value, K= substance is on the list of substances deemed to be carcinogenic, E = EC limit value.)

Personal protective equipment:

Protection of respiratory organs: Providing use of the product complies with instructions, monitoring procedures to ensure compliance with limit values are not necessary. Use a respirator with a P2 particle filter. Filters have a limited lifetime (must be replaced). Read the manufacturer's instructions.

Protection of the skin: Always wear nitrile rubber gloves when diluting and for manual cleaning tasks. It has not been possible to find data for breakthrough time of the ingredients, we therefore recommend changing gloves after use. Butyl rubber gloves are recommended for long-term use.

Protection of the eyes: Close-fitting goggles or face-shield must be worn when there is a risk of splashes during use.

Protection of the environment: -

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to light yellow liquid.
Odour	Characteristic smell.
pH (concentrate)	11,5
pH (diluted for use)	10
Flash point (°C)	> 100
Steam pressure (mmHg at 20.0°C)	-
Relative density	1,01
Solubility in water:	infinite

10. STABILITY AND REACTIVITY

Stability and reactivity: Generally stable.

Conditions to be avoided: Strong acids.

Substances to be avoided: None known.

Hazardous decomposition products: In the event of long-term exposure to heat or dry-boiling, toxic fumes will form (carbonoxides).

Safety Data Sheet according to 1907/2006/EU

11. TOXICOLOGICAL DATA (PROPERTIES INJURIOUS TO HEALTH):

Means of absorption: The product contains a substance which can be absorbed through the skin. The data below is for the substance as 100%, and not for the product as a whole.

Short term effects:

For 2-methoxymethylethoxy propanol:

Inhalation	Can cause headaches and dizziness, unconsciousness, other effects on the central nervous system.
Skin	Degreasing effect. Can be absorbed through the skin.
Eyes	Low-level eye irritation.
Ingestion	Can be a risk to health if ingested in large quantities.

Long-term effects: Contains organic solvents. Long-term effects can cause brain damage and damage to the central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Can have a harmful effect on waterborne organisms. pH over 9 has a corrosive effect on fish (can cause fish fatality). pH over 8.5 can be destructive for algae.

- **Dinatriumtrioxosilikat** Fish: LC50 >2320 mg/L. Daphnia: (100 h) EC50 > 247 mg/L.
- **Ethylenediaminetetraacetic acid, tetrasodium salt:** Fish LC50 (96 h) > 100 mg/L. Aquatic invertebrates: EC50 (48 h) > 100 mg/L. microorganisms/effect on silt: > 100 mg/L. Correct disposal of low concentrations in adapted biological purification plant is not expected to disrupt the decomposition activity of activated slurry.
- **Isotridecanoethoxylate:** Fish: LC50 (96 h) 1-10 mg/L. Daphnia: EC50 (48 h) 1-10 mg/L. Algae: EC50 (72 h) 1-10 mg/L. Microorganisms: EC10 (17 h) > 10000 mg/L, DIN 38412 part 8.
- **2-methoxymethylethoxy propanol:** Fish: LC50 >10,000 mg/L. Daphnia: EC50 1,919 mg/L

Mobility: Soluble in water. If spilt on the ground, the surface-active substances can bind strongly to soil particles.

Persistence & Degradability: The surface-active substances in the product comply with the EU's regulation on fulfilment of criteria for complete aerobic biodegrading for washing and cleaning agents. (> 60 % CO₂/BOD, 28 d, OECD 301B+D).

Bioaccumulation potential: The product is not expected to be bioaccumulable, given the bioaccumulation potential of the various **ingredient substances**.

Results of PBT evaluation: -

Other negative effects: -

Safety Data Sheet according to 1907/2006/EU

13. DISPOSAL CONSIDERATIONS

Residues and handling: The product is classified as hazardous refuse. Use public refuse collection services.

Refuse group: H

Refuse fraction: 01.11

EAK code: 20 01 30 (Residues)

Refuse group: H

Refuse fraction: 05.99

EAK code: 15 02 03

(Absorption agents contaminated with the product)

Refuse handling measures in relation to an exposure scenario: Exposure scenarios have not yet been produced for the product's ingredient substances.

14. TRANSPORT INFORMATION

The product is not covered by the transport rules (ADR/RID)

Hazard label: -

Official goods designation, international: ROAD TRANSPORT (ADR): -

- UN No.: -
- ADR class: -
- ADR packaging group (PG): -
- CEFIC card: -

15. REGULATORY INFORMATION

Has a chemical safety assessment of the substance or of one of the substances in the chemical product been performed: No

Special EU rules and national legislation with regards to protection of personnel and the environment: -

Labelling: The product is labelled according to The Danish Environmental Protection Agency's statutory order on labelling, no. 329/2002, last amended by no. 970/2005.

Harmful substance labelling: Keep out of the reach of children. Avoid contact with eyes.

Contains: < 5%: Non-ionic and amphoteric tensides and EDTA .

R-phrases -

S-phrases S2, S25.

Other relevant phrases: Not to be used by persons under 18 (ref. The Danish Labour Inspection Authority's statutory order on hazardous work performed by young people, as the product contains organic solvents on the Authority's list of organic solvents in its guide on limit values for substances and materials.).

Code no. 1993 Concentrated: 00-2

Diluted for use: 00-1

Safety Data Sheet according to 1907/2006/EU

16. OTHER INFORMATION

Full details of the R-phrases referred to in item 2:

Xi	Local irritant.
C	Corrosive
Xn	Hazardous to health.
R22	Harmful if swallowed.
R34	Corrosion hazard
R36	Irritating to eyes.
R37	Irritating to respiratory organs
R38	Irritating to skin.

Special training requirements: No requirements.

Recommended limitations to use: Not to be used by persons under 18 (ref. the Danish Labour Inspection Authority's statutory order on hazardous work performed by young people). Due to the content of organic solvents, ensure that employees are not exposed to effects which can imply a risk to pregnancy or breastfeeding in the event of workplace instruction in use, (ref. the Danish Labour Inspection Authority's statutory order on the performance of work).

Additional information: ma@sirena-soap.dk

Sources of most important data:

The Danish Environmental Protection Agency's statutory order on classification, packaging, labelling, sale and storage of chemical substances and products, no. 329/2002, last amended by no. 970/2005.

The Danish Environmental Protection Agency's statutory order on the list of hazardous substances, no. 923/2005. AT Guide C.0.1, 2005, Limit values for substances and materials.

The Danish Environmental Protection Agency statutory order on refuse, no. 619/2000, last amended by no. 1329/2005.

Statutory order on special obligations for the manufacturers, suppliers and importers of substances and materials, according to the Working Environment Act no. 559/2002 + Regulation 1907/2006/EC.

The Danish Labour Inspection Authority's statutory order on young people at work, 239/2005.

Version: First version.

Date: 08-11-2007

This safety data sheet has been revised in accordance with the latest revision under items: None (due to the REACH legislation, the version number has been zeroed).