

Nilfisk Roof Cleaner

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation:

Nilfisk Roof Cleaner

Use of the substance/preparation:

Cleaner and degreaser.

Company/undertaking identification:

Nilfisk-ALTO Danmark A/S

Industrivej 1

DK-9560 Hadsund

Tel: + 45 72 18 21 00

Emergency telephone:

+44 - 7976 402998

Responsible person for the safety data sheet (e-mail):

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2. Hazards identification

Irritant and environmentally dangerous preparation.

Classification:

Xi;R36/38 N;R50

3. Composition/information on ingredients

%w/w	Name	CAS-no.	EINECS/ELINCS	Classification
5-15	Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides	85409-22-9	287-089-1	Xn;R21/22 C;R34 N;R50 (M=10)
<5	Isotridecanoethoxylate, polymer	24939-91-8	Polymer	Xn;R22 Xi;R41
≤1	Propan-2-ol	67-63-0	200-661-7	F;R11 Xi;R36 R67

Wording of R-phrases - see section 16.

5-15% Cationic surfactants

< 5% Nonionic surfactants

4. First-aid measures

Inhalation:

Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.

Skin contact:

Remove all contaminated clothing. Wash skin with water and mild soap. If irritation persists: Seek medical advice.

Eye contact:

Flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. Seek medical advice.

Ingestion:

Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.

Information:

Show this safety data sheet to a physician or emergency ward.

5. Fire-fighting measures

Precautions against fire:

Not flammable.

Suitable extinguishing media:

Not relevant.

Non suitable extinguishing media:

Not relevant.

Hazardous combustion or decomposition products:

Not relevant.

Protective equipment:

Not relevant.

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6. Accidental release measures

Personal precautions:

Use personal protective equipment - see section 8. Ventilate area of leak or spill.

Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

Methods for cleaning up:

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Clean with water. Further handling of spillage - see section 13.

7. Handling and storage

Safe storage:

Store in a well-closed original container, non-freezing. Keep out of the reach of children.

Specific use(s):

See section 1.

8. Exposure controls/Personal protection

Exposure limits:

Substance	8-hour TWA	15-min STEL	Comments
Propan-2-ol	400 ppm = 999 mg/m ³	500 ppm = 1250 mg/m ³	

Exposure controls:

Avoid contact with skin, eyes and clothing. Change contaminated clothes. Wash hands and contaminated areas with water and mild soap after use. There shall be access to water and eye wash fountain. Avoid breathing vapors. Provide sufficient ventilation.

Personal protective equipment:

Respiratory protection:

In case of working in not adequate ventilated areas, use an approved mask with a particle filter: P2. The filter has a limited lifetime and must be changed. Read the instruction.

Skin protection:

Wear protective gloves of e.g. nitrile rubber. It has not been possible to find any data for breakthrough time, so it must be recommended to change the glove if spilled on it.

Eye protection:

Wear tight fitting safety goggles when risk of splashes.

Environmental exposure controls:

-

9. Physical and chemical properties

Appearance:	Colourless clear liquid
Odour:	Almond
pH (concentrate):	~ 8
pH (ready to use):	~ 7
Flash point (°C):	> 100
Viscosity (cP) v/20°C:	20
Relative density (g/ml) v/25°C:	1.00
Water solubility:	Miscible

10. Stability and reactivity

Stability:

Stable under the recommended storage conditions (see section 7).

Conditions to avoid:

Excessive heating or freezing.

Materials to avoid:

Generally avoid mixing with other chemicals, especially other detergents.

Hazardous decomposition products:

When heated to high temperatures (decomposition) it emits toxic fumes such as oxides of carbon.

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11. Toxicological information

Routes of exposure:

Skin and gastrointestinal tract.

Acute toxicity:**Inhalation:**

Atomized product can irritate the upper respiratory tract. Symptoms can be throat pain, coughing and difficulty in breathing.

Skin:

May cause irritation with pain, blisters and sores. Degreases skin.

Eyes:

Irritation with redness, pain and blurred vision.

Ingestion:

Irritation to the mucous membranes in mouth, throat and stomach. Symptoms can be nausea, stomach ache, vomiting and headache.

Long term toxicity:

Prolonged or frequent contact can cause eczema and inflammation of the skin as a result of degreasing.

12. Ecological information

Ecotoxicity:

The Quaternary ammonium compound is very toxic in the aquatic environment.

EC₅₀ (daphnia magna – 48h) = 0.057 mg/l. IC₅₀ (scenedesmus subsp – 72h) = 0.024 mg/l.

Isotridecanoethoxylat is toxic in the aquatic environment. EC₅₀ = 1-10 mg/l.

Mobility:

Soluble in water and mobility in the aquatic systems is expected. Surfactants have a strong affinity for particles in the soil.

Persistence and degradability:

The surfactants in the product pass the ultimate biodegradability test according to EC regulation for surfactants in detergents.

The Quaternary ammonium compound and Isotridecanoethoxylat are readily biodegradable (>60% BOD, 28d (OECD 301B+D)).

Bioaccumulative potential:

The Quaternary ammonium compound and Isotridecanoethoxylat: $1 < \log K_{ow} < 3$ – moderate bioaccumulative.

Other adverse effects:

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13. Disposal considerations

Comply with national and local regulations. The preparation is to be considered as hazardous waste.

EWC-code:

20 01 29

14. Transport information

UN-no	Proper shipping name	Class	Packing group	(ADR/RID)
3082	Environmentally hazardous substance, liquid, n.o.s. (Quaternary ammonium compound)	9	III	

UN	Proper Shipping Name	Class	Packing group	EmS	Stowage note	MP	(IMDG)
3082	Environmentally hazardous substance, liquid, n.o.s. (Quaternary ammonium compound)	9	III	F-A, S-F	Categori A	PP	

Limited quantities: 5 l

15. Regulatory information

Danger symbol:

EC-no.: -



Irritant



Dangerous for the environment

Content:

5-15% Cationic surfactants
< 5% Nonionic surfactants

Risk- and Safety-phrases:

R 36/38: Irritating to eyes and skin.
R 50: Very toxic to aquatic organisms.
S 2: Keep out of the reach of children.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 46: If swallowed, seek medical advice immediately and show this container or label.
S 61: Avoid release to the environment. Refer to special instructions / Safety Data Sheets.

Restriction on application:

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16. Other information

R-phrases mentioned in section 2 and 3:

R 11: Highly flammable.
R 21/22: Harmful in contact with skin and if swallowed.
R 22: Harmful if swallowed.
R 34: Causes burns.
R 36: Irritating to eyes.
R 36/38: Irritating to eyes and skin.
R 41: Risk of serious damage to eyes.
R 50: Very toxic to aquatic organisms.
R 67: Vapours may cause drowsiness and dizziness.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his task and be familiar with this safety data sheet.

Further information:

The safety data sheet is prepared according to REACH regulation (EC) No. 1907/2006.

Edition No.:	Date (revision):	Changes in section(s):
1	04 December 2009	-

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