

# SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### **Trade name**

Nilfisk Roof Cleaner

#### Product no.

125300389

# **REACH** registration number

Not applicable

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

#### Relevant identified uses of the substance or mixture

Chemicals for retail sale

#### **Uses advised against**

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

### **Company and address**

Nilfisk A/S

Kornmarksvej 1

Brøndby

DK-2605

Tlf.: +45 43 23 40 50

### **Contact person**

E-mail

# SDS date

2016-10-31

### **SDS Version**

3.0

# 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411

See full text of H-phrases in section 2.2.

#### 2.2. Label elements

#### **Hazard pictogram(s)**



### Signal word

Danger

### Hazard statement(s)

Causes severe skin burns and eye damage. (H314)



Very toxic to aquatic life. (H400)

Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s)

General If medical advice is needed, have product container or label at hand. (P101).

Keep out of reach of children. (P102).

Prevention Do not breathe mist/vapours/fume/spray. (P260).

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower. (P303+P361+P353).

Storage Store locked up. (P405).

Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

#### Identity of the substances primarily responsible for the major health hazards

Alkyldimethylbenzylammoniumchlorid, Fedtalkoholethoxylat

### 2.3. Other hazards

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### **Additional labelling**

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### **Additional warnings**

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

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### **SECTION 3: Composition/information on ingredients**

### 3.1/3.2. Substances/Mixtures

NAME: Alkyldimethylbenzylammoniumchlorid IDENTIFICATION NOS.: CAS-no: 85409-22-9 EC-no: 287-089-1

CONTENT: 5-10%

CLP CLASSIFICATION: Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1

H302, H314, H318, H400, H410 (M-acute = 10) (M-chronic = 1)

NAME: Fedtalkoholethoxylat

IDENTIFICATION NOS.: CAS-no: 69011-36-5 EC-no: - REACH-no: 02-2119549526-31-0000

CONTENT: 1-3%

CLP CLASSIFICATION: Eye Dam. 1, Acute Tox. 4

H318, H302

NAME: propan-2-ol isopropyl alcohol isopropanol

IDENTIFICATION NOS.: CAS-no: 67-63-0 EC-no: 200-661-7 Index-no: 603-117-00-0

CONTENT: <1%

CLP CLASSIFICATION: Flam. Liq. 2, STOT SE 3, Eye Irrit. 2

H225, H319, H336

NOTE: S

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available. S = Organic solvent

### Other information

ATEmix(inhale, vapour) > 20 ATEmix(inhale, dust/mist) > 20 ATEmix(inhale, dust/mist) > 20000 ATEmix(dermal) > 2000 ATEmix(oral) > 2000

Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2,5144 - 3,7716Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 6,96 - 10,44

N chronic (CAT 2) Sum = Sum(Ci/M(chronic)i\*25\*0.1\*10^CATi) = 2,784 - 4,176

N acute (CAT 1) Sum = Sum(Ci/M(acute)i\*25) = 2,784 - 4,176

Detergent:

5 - 15%: CATIONIC SURFACTANTS < 5%: NON-IONIC SURFACTANTS

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**V**General information



In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### **Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

### Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

### **V**Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### **Burns**

Not applicable

### 4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

No special

### Information to medics

Bring this safety data sheet.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

# 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

### ▼ 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.



### ▼ 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Storage temperature

No data available.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

### OFL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

#### **DNEL / PNEC**

DNEL (Alkyldimethylbenzylammoniumchlorid): 5,7 mg/kg/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - Workers DNEL (Alkyldimethylbenzylammoniumchlorid): 3,96 mg/kg/day

**Exposure: Inhalation** 

Duration of Exposure: Long term - Systemic effects - Workers DNEL (Alkyldimethylbenzylammoniumchlorid): 3,4 mg/kg/day

Exposure: Oral

Duration of Exposure: Long term - Systemic effects - General population

DNEL (Alkyldimethylbenzylammoniumchlorid): 3,4 mg/kg/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - General population

DNEL (Alkyldimethylbenzylammoniumchlorid): 1,64 mg/kg/day

**Exposure: Inhalation** 

Duration of Exposure: Long term - Systemic effects - General population

PNEC (Alkyldimethylbenzylammoniumchlorid): 0,0009 mg/L

Exposure: Freshwater

PNEC (Alkyldimethylbenzylammoniumchlorid): 0,00096 mg/L

Exposure: Marine water

PNEC (Alkyldimethylbenzylammoniumchlorid): 0,00016 mg/L

Exposure: Intermittent release

PNEC (Alkyldimethylbenzylammoniumchlorid): 12,27 mg/kg Exposure: Freshwater sediment

PNEC (Alkyldimethylbenzylammoniumchlorid): 13,09 mg/kg

Exposure: Marine water sediment

PNEC (Alkyldimethylbenzylammoniumchlorid): 7 mg/kg

Exposure: Marine water sediment

PNEC (Alkyldimethylbenzylammoniumchlorid): 0,4 mg/L

**Exposure: Sewage Treatment Plant** 

### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

### **General recommendations**

Observe general occupational hygiene standards.

### **Exposure scenarios**

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### **Exposure limits**

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.



### **Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### **▼**Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

# Individual protection measures, such as personal protective equipment



### Generally

Use only CE marked protective equipment.

### **Respiratory Equipment**

Recommended: S/SL. P2. White

### **Skin protection**

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

# **Hand protection**

Recommended: Nitrile rubber. See the manufacturer's instructions.

### **Eye protection**

Wear safety glasses with side shields.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Form Liquid Colour Clear

Odour Characteristic

pH 8,0

Viscosity (40°C) No data available.

Density (g/cm<sup>3</sup>) 0,996

Phase changes

Melting point (°C)

Boiling point (°C)

Vapour pressure

No data available.

No data available.

No data available.

Data on fire and explosion hazards

Flashpoint (°C)

Ignition (°C)

Self-ignition (°C)

Explosion limits (Vol %)

No data available.

No data available.

No data available.

No data available.

**Solubility** 

Solubility in water Soluble

n-octanol/water coefficient No data available.

9.2. Other information

Solubility in fat (g/L) No data available.

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.



### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### **Acute toxicity**

Substance	Species	Test	Route of exposure	Result
propan-2-ol isopropyl alcoho	Rabbit	LD50	Dermal	12800 mg/kg bdw
propan-2-ol isopropyl alcoho	Rat	LD50	Oral	5045 mg/kg bdw
propan-2-ol isopropyl alcoho	Rat	LC50	Inhalation	16000 ppm/8h
Fedtalkoholethoxylat	Rat	LD50	Oral	> 500 - 2000 mg/kg
Fedtalkoholethoxylat	Rat	LD50	Dermal	> 4000 mg/kg
Alkyldimethylbenzylammoniumc	Rat	LD50	Oral	397,5 mg/kg
hl	Rabbit	LD50	Dermal	3412 mg/kg
Alkyldimethylbenzylammoniumc				
hl				

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

Data on substance: Alkyldimethylbenzylammoniumchlorid

Test: no guideline followed

Organism: -

Result: ætsende virkninger på hud og slimhinde

### Serious eye damage/irritation

Causes serious eye damage.

Data on substance: Alkyldimethylbenzylammoniumchlorid

Test: no guideline followed Result: Virker stærkt ætsende Respiratory or skin sensitisation

No data available.

### Germ cell mutagenicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

Data on substance: Alkyldimethylbenzylammoniumchlorid

No adverse effect observed.

### Carcinogenicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

#### Reproductive toxicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

Data on substance: Alkyldimethylbenzylammoniumchlorid

No adverse effect observed.

### STOT-single exposure

No data available.

### **STOT-repeated exposure**

No data available.

### **Aspiration hazard**

Data on substance: Alkyldimethylbenzylammoniumchlorid

No adverse effect observed.

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.



### **SECTION 12: Ecological information**

### 12.1. Toxicity

Substance	Species	Test	Duration	Result
propan-2-ol isopropyl alcoho	•			
propan-2-ol isopropyl alcoho				
Fedtalkoholethoxylat	Algae	EC50	24 h	1000000 ug/L
Fedtalkoholethoxylat	Fish	LC50	48 h	1400000 ug/L
Fedtalkoholethoxylat	Fish	LC50	96 h	10 - 100 mg/L
Alkyldimethylbenzylammoniumc	Daphnia	EC50	48 h	10 - 100 mg/L
hl	Algae	EC50	72 h	10 - 100 mg/L
Alkyldimethylbenzylammoniumc	Fish	LC50		0,515 mg/l
hl	Daphnia	EC50		0,016 mg/l
Alkyldimethylbenzylammoniumc	Algae	IC50		0,03 mg/l
hl	Algae	NOEC		0,009 mg/l
Alkyldimethylbenzylammoniumc	•			
hl				

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Fedtalkoholethoxylat	Yes	No data available	No data available
Alkyldimethylbenzylammoniumc	Yes	No data available	No data available

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
propan-2-ol isopropyl alcoho	No	0,05	No data available
Fedtalkoholethoxylat	No	No data available	No data available

### 12.4. Mobility in soil

propan-2-ol isopropyl alcoho...: Log Koc= 0,117995 (High mobility potential.).

#### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse longterm effects to the aquatic environment,

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

**EWC** code 20 01 29

detergents containing dangerous substances

Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

# **SECTION 14: Transport information**

### 14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number 3082

14.2. UN proper shipping name CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard 9 class(es) 14.4. Packing group Ш **Notes Tunnel restriction code** Ε

**IMDG** 

UN-no.

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.(Benzalkoniumchloride)



 Class
 9

 PG\*
 III

 EmS
 F-A, S-B

 MP\*\*
 Yes

 Hazardous constituent

IATA/ICAO

**UN-no.** 3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Benzalkoniumchloride)

Class 9 PG\* III

#### 14.5. Environmental hazards

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

### 14.6. Special precautions for user

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### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

### **SECTION 15: Regulatory information**

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

### **Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

# **Demands for specific education**

# **Additional information**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### **Sources**

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

### **SECTION 16: Other information**

## Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eve damage.

H318 - Causes serious eye damage.

H319 - Causes serious eve irritation.

H336 - May cause drowsiness or dizziness.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1



# Other symbols mentioned in section 2

### Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by MH

Date of last essential change
(First cipher in SDS version)
2016-09-30

Date of last minor change
(Last cipher in SDS version)

2016-09-30

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