SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Nilfisk Boat Cleaner

Product no.
125300391

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
2016-11-22

SDS Version
1.1

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

Eye Irrit. 2; H319
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word
Warning

Hazard statement(s)
Causes serious eye irritation. (H319)

Safety statement(s)
General
If medical advice is needed, have product container or label at hand. (P101).
According to EC-Regulation 2015/830

**Prevention**
- Keep out of reach of children. (P102).
- Wear eye protection. (P280).
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
- If eye irritation persists: Get medical advice/attention. (P337+P313).

**Response**
- -

**Storage**
- -

**Disposal**
- -

**Identity of the substances primarily responsible for the major health hazards**
- -

**2.3. Other hazards**
- -

**Additional labelling**
- -

**Additional warnings**
- -

**VOC**
- -

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

### 3.1/3.2. Substances/Mixtures

<table>
<thead>
<tr>
<th>NAME</th>
<th>IDENTIFICATION NOS.</th>
<th>CONTENT</th>
<th>CLP CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME:</td>
<td>alpha, AlkylC10-16, omega, hydroxypolyoxyethylene, sulfate, sodium, salt</td>
<td>CAS-no: 68585-34-2 EC-no: 500-223-8</td>
<td>1-3%</td>
</tr>
<tr>
<td>NAME:</td>
<td>Alanine, N,N-bis(carboxymethyl)-, trisodium salt</td>
<td>CAS-no: 164462-16-2 REACH-no: 01-0000016977-53</td>
<td>1-3%</td>
</tr>
<tr>
<td>NAME:</td>
<td>Fedalkoholethoxylat</td>
<td>CAS-no: 69011-36-5 REACH-no: 02-2119549526-31-0000</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>NAME:</td>
<td>amider, kokos, N,N-bis-(hydroxyethyl)</td>
<td>CAS-no: 68603-42-9 EC-no: 271-657-0</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>NAME:</td>
<td>paraffinolier, sulfochlorerede, forsæbede</td>
<td>CAS-no: 68188-18-1 EC-no: 269-144-1</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>NAME:</td>
<td>acetic acid … %</td>
<td>CAS-no: 64-19-7 EC-no: 200-580-7 Index-no: 607-002-00-6</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>NAME:</td>
<td>sodium hydroxide</td>
<td>CAS-no: 1310-73-2 EC-no: 215-185-5 Index-no: 011-002-00-6</td>
<td>&lt;0.05%</td>
</tr>
</tbody>
</table>

*See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.*

**Other information**

ATEmix (inhale, vapour) > 20
According to EC-Regulation 2015/830

ATEmix(inhale, dust/mist) > 20
ATEmix(inhale, dust/mist) > 20000
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,324 - 1,986
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,168 - 0,252
Detergent:
< 5%: ANIONIC SURFACTANTS, NON-IONIC SURFACTANTS

SECTION 4: First aid measures

4.1. Description of first aid measures

▼ 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
Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact
Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

▼ 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
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
If eye irritation persists: Get medical advice/attention.

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
According to EC-Regulation 2015/830

6.1. Personal precautions, protective equipment and emergency procedures
No specific requirements.

6.2. Environmental precautions
No specific requirements.

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. See section on 'Exposure controls/personal protection' for information on personal protection.

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

OEL
sodium hydroxide (EH40, 2005)
Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³
Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

DNEL / PNEC

DNEL (paraffinolier, sulfoclorerede, forsæbede): 10 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (paraffinolier, sulfoclorerede, forsæbede): 17 mg/kg bw/dag
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (paraffinolier, sulfoclorerede, forsæbede): 10 mg/kg bw/dag
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

PNEC (paraffinolier, sulfoclorerede, forsæbede): 0,02 mg/kg
Exposure: Soil

PNEC (paraffinolier, sulfoclorerede, forsæbede): 8,1 mg/L
Exposure: Sewage Treatment Plant

PNEC (paraffinolier, sulfoclorerede, forsæbede): 0,17 mg/kg
Exposure: Freshwater sediment

PNEC (paraffinolier, sulfoclorerede, forsæbede): 0,017 mg/kg
Exposure: Marine water sediment

PNEC (paraffinolier, sulfoclorerede, forsæbede): 0,2 µg/L
Exposure: Marine water

PNEC (paraffinolier, sulfoclorerede, forsæbede): 20 µg/L
Exposure: Freshwater

8.2. Exposure controls
Compliance with the given occupational exposure limits values should be controlled on a regular basis.

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
According to EC-Regulation 2015/830

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

**Appropriate technical measures**
Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

**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**
No specific requirements.

**Individual protection measures, such as personal protective equipment**

**Generally**
Use only CE marked protective equipment.

**Respiratory Equipment**
No specific requirements.

**Skin protection**
Dedicated work clothing should be worn.

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellowish</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>8.0</td>
</tr>
<tr>
<td>Viscosity (40°C)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>1.03</td>
</tr>
</tbody>
</table>

**Phase changes**
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Vapour pressure: No data available.

**Data on fire and explosion hazards**
- Flashpoint (°C): No data available.
- Ignition (°C): No data available.
- Self-ignition (°C): No data available.
- Explosion limits (Vol %): 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
According to EC-Regulation 2015/830

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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Route of exposure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>acetic acid ... %</td>
<td>Rat</td>
<td>LC50</td>
<td>Inhalation</td>
<td>16000 ppm/4 h</td>
</tr>
<tr>
<td></td>
<td>acetic acid ... %</td>
<td>Rabbit</td>
<td>LD50</td>
<td>Dermal</td>
<td>1060 mg/kg</td>
</tr>
<tr>
<td></td>
<td>paraffinolier, sulfochlorerede...</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>3310 mg/kg</td>
</tr>
<tr>
<td></td>
<td>paraffinolier, sulfochlorerede...</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>1271 mg/kg</td>
</tr>
<tr>
<td></td>
<td>amider, kokos-, N,N-bis- (hydro...</td>
<td>Rabbit</td>
<td>LD50</td>
<td>Dermal</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>amider, kokos-, N,N-bis- (hydro...</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fedtalkoholethoxylat</td>
<td>Rat</td>
<td>LD50</td>
<td>Dermal</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Fedtalkoholethoxylat</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Alanine, N,N-bis(carboxymethyl)...</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Data on substance: Alanine, N,N-bis(carboxymethyl)-, trisodium salt
Test: OECD Guideline 404
Organism: Rabbit
Result: Ikke irriterende

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
No data available.

Germ cell mutagenicity
Data on substance: Fedtalkoholethoxylat
No adverse effect observed.

Data on substance: Alanine, N,N-bis(carboxymethyl)-, trisodium salt
Test: OECD Guideline 471
Result: negativ
No adverse effect observed.

Data on substance: alpha,-Alkyl,C10-16,omega,-hyd...
No adverse effect observed.

Carcinogenicity
Data on substance: Fedtalkoholethoxylat
No adverse effect observed.

Data on substance: Alanine, N,N-bis(carboxymethyl)-, trisodium salt
Organism: Rat
Result: negativ
No adverse effect observed.

Data on substance: alpha,-Alkyl,C10-16,omega,-hydroxypoly,oxyethylene,sulfate,sodium,salt
No adverse effect observed.

Reproductive toxicity
Data on substance: Fedtalkoholethoxylat
No adverse effect observed.
Data on substance: Alanine, N,N-bis(carboxymethyl)-, trisodium salt
No adverse effect observed.

Data on substance: Alanine, N,N-bis(carboxymethyl)-, trisodium salt

Data on substance: alpha,-Alkyl,C10-16,omega,-hydroxypoly,oxyethylene,sulfate,sodium,salt
No adverse effect observed.

**STOT-single exposure**  
No data available.

**STOT-repeated exposure**  
No data available.

**Aspiration hazard**  
No data available.

**Long term 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Duration</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetic acid ... %</td>
<td>Fish</td>
<td>LC50</td>
<td>24 h</td>
<td>251 mg/L</td>
</tr>
<tr>
<td>acetic acid ... %</td>
<td>Daphnia</td>
<td>IC50</td>
<td>96 h</td>
<td>47 mg/L</td>
</tr>
<tr>
<td>paraffinolier, sulfochlorerede...</td>
<td>Daphnia</td>
<td>EC50</td>
<td>48 h</td>
<td>4.72 mg/L</td>
</tr>
<tr>
<td>paraffinolier, sulfochlorerede...</td>
<td>Algae</td>
<td>IC50</td>
<td>72 h</td>
<td>246.89 mg/L</td>
</tr>
<tr>
<td>amider, kokos-, N,N-bis-(hydro...</td>
<td>Fish</td>
<td>LC50</td>
<td>96 h</td>
<td>4.16 mg/L</td>
</tr>
<tr>
<td>amider, kokos-, N,N-bis-(hydro...</td>
<td>Daphnia</td>
<td>EC50</td>
<td>48 h</td>
<td>2.4 mg/L</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>Algae</td>
<td>ErC50</td>
<td>72 h</td>
<td>3.2 mg/L</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>Fish</td>
<td>LC50</td>
<td>96 h</td>
<td>2.1 mg/L</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>Daphnia</td>
<td>EC50</td>
<td>48 h</td>
<td>10 - 100 mg/L</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>Algae</td>
<td>EC50</td>
<td>72 h</td>
<td>10 - 100 mg/L</td>
</tr>
<tr>
<td>Alanine, N,N-bis(carboxymethyl...</td>
<td>Fish</td>
<td>LC50</td>
<td>96 h</td>
<td>&gt; 200 mg/L</td>
</tr>
<tr>
<td>Alanine, N,N-bis(carboxymethyl...</td>
<td>Daphnia</td>
<td>EC50</td>
<td>48 h</td>
<td>&gt; 200 mg/L</td>
</tr>
<tr>
<td>Alanine, N,N-bis(carboxymethyl...</td>
<td>Algae</td>
<td>EC50</td>
<td>72 h</td>
<td>&gt; 200 mg/L</td>
</tr>
<tr>
<td>Alanine, N,N-bis(carboxymethyl...</td>
<td>Fish</td>
<td>LC50</td>
<td>96 h</td>
<td>&gt; 1 mg</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biodegradability</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>paraffinolier, sulfochlorerede...</td>
<td>Yes</td>
<td>Modified OECD Screening Test</td>
<td>82 %</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>Yes</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Potential bioaccumulation</th>
<th>LogPow</th>
<th>BCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>paraffinolier, sulfochlorerede...</td>
<td>No</td>
<td>2.27</td>
<td>No data available</td>
</tr>
<tr>
<td>Fedtalkoholethoxylat</td>
<td>No</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Alanine, N,N-bis(carboxymethyl...</td>
<td>No</td>
<td>-4</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

paraffinolier, sulfochlorerede...: Log Koc= 1,876013, Calculated from LogPow (High mobility potential.).  
Alanine, N,N-bis(carboxymethyl...: Log Koc= -3.0892, Calculated from LogPow (High mobility potential.).

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

No data available

#### 12.6. Other adverse effects

No special

### SECTION 13: Disposal considerations
13.1. Waste treatment methods
Product is not covered by regulations on dangerous waste.

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
Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID
14.1. UN number -
14.2. UN proper shipping name -
14.3. Transport hazard class(es) -
14.4. Packing group -
Notes -
Tunnel restriction code -

IMDG
UN-no. -
Proper Shipping Name -
Class -
PG* -
EmS -
MP** -
Hazardous constituent -

IATA/ICAO
UN-no. -
Proper Shipping Name -
Class -
PG* -

14.5. Environmental hazards -
14.6. Special precautions for user -
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

15.2. Chemical safety assessment
No

SECTION 16: Other information
Full text of H-phrases as mentioned in section 3
H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.

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). 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)
2016-09-28

Date of last minor change
(Last cipher in SDS version)
2016-10-12