SAFETY DATA SHEET
Marine Cleaner

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

Date issued 25.08.2012

1.1. Product identifier
Product name Marine Cleaner

1.2. Relevant identified uses of the substance or mixture and uses advised against
Product group Medium Alkaline Soil Remover - All purpose cleaner/degreaser
Use of the substance/preparation Industrial grease remover

1.3. Details of the supplier of the safety data sheet
Company name Produs A/S
Office address Hornnes
Postal address Postb. 220
Postcode 6802
City FØRDE
Country NORGE
Tel 57827100
Fax 57827101
E-mail produs@produs.as
Website http://www.produs.as
Enterprise no. 984 244 754
Contact person Christian Ravnøy

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to 67/548/EEC or 1999/45/EC Xi; R36/38
Classification according to Regulation (EC) No 1272/2008 H315
[CLP/GHS] H319
Skin Irrit. 2
Eye Irrit. 2

2.2. Label elements

Hazard Pictograms (CLP)

Composition on the label Di Sodium metasilicate pentahydrate: 1 - 5 %, Potassium Hydroxide: 1 - 5 %, Potassium pyrophosphate: 1 - 5 %, Alcohol ethoxylate c9-c11: 5 - 15 %

Signal word Warning

Hazard statements H319 Causes Serious eye irritation. H315 Causes Skin irritation.

Precautionary statements P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P102 Keep out of reach of children. P262 Do not get in eyes, on skin, or on clothing.
2.3. Other hazards
Description of hazard  Irritating to eyes and skin.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Component name</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di Sodium metasilicate pentahydrate</td>
<td>CAS no.: 10213-79-3</td>
<td>H290, H335, H314, Met. Corr. 1, STOT SE3, Skin Corr 1B</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>CAS no.: 1310-58-3</td>
<td>Skin Corr 1A, H314, H302</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Potassium pyrophosphate</td>
<td>CAS no.: 7320-34-5</td>
<td>Eye Irrit. 2; H319</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Alcohol ethoxylate c9-c11</td>
<td>CAS no.: 68439-46-3</td>
<td>Eye Dam. 1; H318</td>
<td>5 - 15 %</td>
</tr>
</tbody>
</table>

Description of the mixture  Waterbased alkaline degreaser with surfactants
Remark, component  Contains phosphate = 1,1% phosphorus

SECTION 4: First aid measures

4.1. Description of first aid measures
General  Show this safety data sheet to the doctor in attendance
Inhalation  Move to fresh air in case of accidental halation.
Skin contact  Wash off with soap and plenty of water. If symptoms persist, call a physician.
Eye contact  Immediately flush eye(s) gently with plenty of water, for at least 15min.
Remove contact lenses. If eye irritation persists, consult a specialist.
Ingestion  Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water or milk. Contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
Acute symptoms and effects  Skin or eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Separate first aid equipment  Eye wash bottle with pure water.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media  In case of fire, use water spray (fog), foam, dry chemical or CO2.

5.2. Special hazards arising from the substance or mixture
Fire and explosion hazards  Decomposition products may include dioxide gasses.

5.3. Advice for firefighters
Personal protective equipment  Wear appropriate protective equipment and self-contained breathing apparatus.
Other Information  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures  Allway wipe up with absorbent material (e.g. cloth, fleece). Flush with plenty of water. Do not flush into surface water.
Personal precautions  For personal protection see section 8
6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up
Methods for cleaning
For large spills, dike spilled material or otherwise contain it to ensure runoff
does not reach a waterway. Place spilled material in an appropriate container
for disposal.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Handling
Only for use in a well-ventilated area. Avoid contact with skin and eyes.
For personal protection see section 8.

7.2. Conditions for safe storage, including any incompatibilities
Storage
Keep container tightly closed. Store at room temperature in the original
container. Store away from children.

Packaging compatibilities
Keep in the original container.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls
Occupational exposure controls
Good general ventilation should be sufficient to control worker exposure to
airborne contaminants. To be used with cold water.

Safety signs

Respiratory protection
Respiratory protection
In the case of vapour formation use a respirator with an approved filter.
Respiratory protection remark
In small rooms or no ventilations, use of adequate ventilation or a respirator
is good industrial practice. Provide exhaust ventilation or other engineering
controls to keep the airborne concentrations of vapors below their respective
occupational exposure limits.

Hand protection
Hand protection
Use latex or nitrile gloves. The selected protective gloves have to satisfy the
specifications of EU Directive 89/686/EEC and the standard EN 374 derived
from it. Before removing gloves clean them with soap and water.
Hand protection remark
Remember to wash hands with soap and water after work. Re-hydrate skin
with lotion.

Eye / face protection
Eye protection
Safety glasses or eye protection should be worn if there is a risk of direct
exposure to aerosols or splashes.

Skin protection
Skin protection (other than of the
hands)
Additional body garments should be used (e.g. sleevelets, apron, disposable
suit etc.), based on the task being performed.

Other Information
Other Information
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity None identified.

10.2. Chemical stability
Stability Stable.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions None identified.

10.4. Conditions to avoid
Conditions to avoid Do not dry out on surfaces, may cause burns.

10.5. Incompatible materials
Materials to avoid Not known.

10.6. Hazardous decomposition products
Hazardous decomposition products None identified.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Components' toxicological data

Other information regarding health hazards
General Serious irritation of skin and eyes,

Potential acute effects
Inhalation None identified.
Skin contact May irritate skin.
Eye contact Causes serious eye irritation.
Ingestion May irritate digestive tract.

SECTION 12: Ecological information

12.1. Toxicity
Components' toxicological data

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects
Other adverse effects / Remarks Contains phosphate = 1,1% phosphorus. Phosphorus can increase algae growth

Environmental details, conclusion Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. The surfactants in the product meet all requirements of the detergents regulation 648/2004/EC.
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Specify the appropriate methods of disposal

Container should be emptied thoroughly. Do not pour remains of product in large quantities into the sewage.

Hazardous waste product
Refer to local regulations

Other Information
Clean container with water. Cans or containers must be cleaned and returned to the manufacturers for recycling.

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

Other applicable information.
Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

Other Label Information
Contains water

15.2. Chemical safety assessment

SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
; H315;
; H319;

List of relevant R phrases (under headings 2 and 3).
R36/38 Irritating to eyes and skin.

List of relevant H-phrases (Section 2 and 3).
H290 May be corrosive to metals.
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.
H335 May cause respiratory irritation.

Responsible for safety data sheet
Produs A/S