

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date: 29.08.2008

Revision: 29.08.2008

1 Identification of substance:

- **Product details:**
- **Trade name:** **NORDIC SYRE SÆBE**
- **Application of the substance / the preparation** Special cleaning agent
- **Supplier/Manufacturer:**
NORDIC STALD KEMI APS
Rugtoften 47
6630 Rødding
Denmark;
Tel.: +45-(0)506-75852474
Fax: +45-(0)506-75852475
- **Email competent person:** angelika.torges@kft.de
- **Information department:** See supplier/manufacturer
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Hazards identification

- **Hazard description:**



C Corrosive

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EC" in the latest valid version.

Acid burns have to be treated immediately, as otherwise badly curing wounds are caused.

R 34 Causes burns.

- **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

- **Additional information:**

This preparation is despite of the extreme ph-value of < 2 not classified as corrosive with R 35 but R 34, since there are specific limits determined in Annex I of Directive 67/548/EEC for the component phosphoric acid.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**

| | | |
|-------------------------|-------------------------------|---------|
| CAS: 7664-38-2 | phosphoric acid | 25-50% |
| EINECS: 231-633-2 | C; R 34 | |
| EU Number: 015-011-00-6 | | |
| CAS: 68131-39-5 | Alcohols, C12-15, ethoxylated | 2.5-10% |
| | Xn, Xi; R 22-41 | |

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:**
Immediately remove any clothing soiled by the product.
Take affected persons out of danger area and lay them down.

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- **After inhalation:**

In case of complaints which may be caused by vapours supply fresh air and call for a doctor.
In case of unconsciousness, place patients on their side in a stable position for transportation.

- **After skin contact:**

Take-off and remove wetted clothing, shoes and stocking immediately. Rinse affected parts of the body with plenty of water.
Cover wound with a sterile dressing.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

- **After eye contact:**

Protect unharmed eye.
Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.
Never give anything by mouth to a unconscious person.
Do not induce vomiting; call for medical help immediately.

- **Information for doctor:**

Do not neutralise with sodium hydrogen carbonate (NaHCO_3) or calcium carbonate (CaCO_3). Administer a suspension of aluminium oxide instead.

- **Treatment:**

Symptomatic treatment
(decontamination, vital functions)
In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol.

5 Fire fighting measures

- **Suitable extinguishing agents:**

CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Dangerous decomposition product see chapter 10: stability and reactivity

- **Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.
During clearance wear protective clothing and rubber boots.

- **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

- **Measures for cleaning/collecting:**

Dam up larger quantities and pump into containers.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Send for recovery or disposal in suitable receptacles.

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Dispose contaminated material as waste according to item 13.

* 7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - Avoid contact with eyes and skin.
 - Avoid inhalation of vapours.
 - When diluting, always stir the product into standing water, do not add water to product.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 - Store container tightly sealed at a cool and dry place with sufficient ventilation.
 - Provide acid-resistant floor.
 - Prevent any seepage into the ground.
 - Do not use light alloy receptacles.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from feed.
 - Do not store together with alkalies (caustic solutions).
- **Further information about storage conditions:** None.
- **Storage class** 8 Corrosive products (VCI)

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid

| | |
|------------------------|---------------------------------------|
| IOELV (European Union) | Short-term value: 2 mg/m ³ |
| | Long-term value: 1 mg/m ³ |
| WEL (Great Britain) | Short-term value: 2 mg/m ³ |
| | Long-term value: 1 mg/m ³ |
| OEL (Ireland) | Short-term value: 2 mg/m ³ |
| | Long-term value: 1 mg/m ³ |
| | IOELV |
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with eyes and skin absolutely.
 - Provide eye bath.
 - If larger quantities are handled provide emergency showers.
- **Breathing equipment:**
 - Not necessary if room is well-ventilated.
 - In case of unintentional release of substance, exceeding the occupational exposure limit value:

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In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use respirator filter unit with combination filter type B-P (colour code grey/white):

Up to 0,1 Vol.% class 1,

up to 0,5 Vol.% class 2,

up to 1,0 Vol.% class 3,

above 1 Vol. % and in case of unclear conditions use respirator equipment which is independent of the ambient air.

Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

• **Protection of hands:**

Chemical resistant gloves

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• **Penetration time of glove material:**

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **For the permanent contact gloves made of the following materials are suitable:**

For example protection gloves made by KCL GmbH, D-36124 Eichenzell; email: vertrieb@kcl.de, with following specification (tested according to EN 374):

Material: Natural rubber

Thickness: 1 mm

Permeation time: > 480 Min

Product name: Combi-Latex (395)

Material: Nitrile

Thickness: 0,4 mm

Permeation time: > 480 Min

Product name: Camatril-Profi (729)

These recommendations are valid only for the product mentioned in this safety data sheet.

• **Eye protection:**

Tightly sealed goggles.

If a splashing of the product is possible wear full face protection.

• **Body protection:**

Acid resistant protective clothing

Apron

Boots

9 Physical and chemical properties:

• **General Information**

| | |
|----------------|---------------|
| Form: | Fluid |
| Colour: | greenish |
| Odour: | light pungent |

• **Change in condition:**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

Setting temperature / range: -10°C

• **Flash point:** not applicable

• **Auto-ignition:** Product is not self-igniting.

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C:** 1.2 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible
- **pH-value (10 g/l) at 20°C:** ~ 2
- **Viscosity:**
dynamic at 20°C: ~ 100 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
No decomposition if used according to specifications.
- **Materials to be avoided:**
Base metals
Bases
- **Dangerous reactions:** Reacts with light alloys to form hydrogen
- **Dangerous products of decomposition:**
In the case of fire or at high temperatures the formation of the following decomposition products is possible.
Phosphorus compounds

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Caustic effect
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** After neutralisation easily to eliminate.
- **Ecotoxicological effects:**
- **Aquatic toxicity:** Presently there are no ecotoxicological values available.
- **Remark:** Due to the low pH-value there may be toxic effects on aquatic organisms.
- **General notes:**
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.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.

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Must not reach sewage water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**
- **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

- **Uncleaned packagings:**
- **Recommendation:**

Disposal must be made according to official regulations.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 (C1) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1805
- **Packaging group:** III
- **Label:** 8
- **Description of goods:** 1805 PHOSPHORIC ACID, LIQUID, solution
- **Remarks:** Limited quantity: 5l per inner packaging, 30 kg gross per packaging unit

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1805
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** PHOSPHORIC ACID, LIQUID, solution

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1805
- **Label:** 8

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- **Packaging group:** III
- **Proper shipping name:** PHOSPHORIC ACID, LIQUID, solution
- **Remarks:** Packing Instructions:
For Limited Quantities: Y819 (Max Net Qty/Pkg: 1,0 l)
Passenger and Cargo Aircraft: 819 (Max Net Qty/Pkg: 5 l)
Cargo Aircraft only: 821 (Max Net Qty/Pkg: 60 l)

15 Regulations

- **Markings according to EC guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
- **Code letter and hazard designation of product:**



C Corrosive

- **Hazard-determining components of labelling:**
phosphoric acid
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
23 Do not breathe vapour/aerosol.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.
- **National regulations**
- **Information about limitation of use:** Restrictions on juvenile employment must be observed.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:**
TLV
Regulation (EC) No. 1907/2006
- **Relevant R-phrases:**
as mentioned in chapter 3 of the safety data sheet (not relevant for labelling of the product)
22 Harmful if swallowed.
34 Causes burns.
41 Risk of serious damage to eyes.
- **Department issuing MSDS:**
KFT-Chemieservice GmbH
Marienstr. 3 D-64347 Griesheim
Postfach 1451 D-64345 Griesheim
Tel.: +49-6155-823241
Fax: +49-6155-823246
- **Contact:** Angelika Torges
- *** Data compared to the previous version altered.**
Changes have been made to chapters marked with a *, as compared to the previous version.