

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

Printing date 07.03.2012

Revision: 07.03.2012

1 Identification of substance:

- **Product details:**
- **Trade name:** Aqua Clean - ohne Chlor -
- **Application of the substance / the preparation:** Water treatment
- **Manufacturer / Supplier:**
Yachticon A. Nagel GmbH Tel.: +49(0)405113780
Hans-Böckler-Ring 33
D-22851 Norderstedt
- **E-mail address of the competent person responsible for the Safety Data Sheet:**
yachticon@yachticon.de
- **Informing department:** Yachticon A. Nagel GmbH , Tel.: +49(0)405113780
- **Emergency information:**
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Tel.: +49-(0)30-19240

2 Hazards identification

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

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aqueous solution
- **Dangerous components:** Void

- **Other components:**

CAS: 7647-14-5	Sodium chloride	25-50%
EINECS: 231-598-3		

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Rinse with plenty of water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
Product does not burn - take extinguishing measures according to fire conditions.
- **For safety reasons unsuitable extinguishing agents** none

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- **Special hazards caused by the material, its products of combustion or flue gases:**
Can be released in case of fire:
Hydrogen chloride (HCl)
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Avoid contact with eyes.
Avoid long or repeated skin contact.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves
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.
Check the permeability prior to each renewed use of the glove.
To avoid skin problems reduce the wearing of gloves to the required minimum.

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· Material of gloves

Natural rubber - NR

Recommended thickness of the material: ≥ 0.5 mm

Chloroprene rubber - CR

Recommended thickness of the material: ≥ 0.5 mm

Nitrile rubber - NBR

Recommended thickness of the material: ≥ 0.35 mm

Butyl rubber - BR

Recommended thickness of the material: ≥ 0.5 mm

Fluorocarbon rubber (Viton) - FKM

Recommended thickness of the material: ≥ 0.4 mm**· Penetration time of glove material**Penetration time: ≥ 8 hours

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

· Eye protection: Safety glasses recommended during refilling.

9 Physical and chemical properties:

· General Information

Form:	liquid
Colour:	colourless
Smell:	odourless

· Change in condition**Melting point/Melting range:** $< 0^{\circ}\text{C}$ **Boiling point/Boiling range:** $\sim 100^{\circ}\text{C}$ **· Flash point:** not applicable**· Self-inflammability:** Product is not selfigniting.**· Danger of explosion:** Product is not explosive.**· Vapor pressure at 20°C:** 23 hPa**· Density at 20°C:** ~ 1.2 g/cm³**· Solubility in / Miscibility with****Water:** soluble**· pH-value:** neutral

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.**· Materials to be avoided:****· Dangerous reactions** No dangerous reactions known.**· Dangerous products of decomposition:** No dangerous decomposition products known.

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11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Short time, reversible irritating effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **European waste catalogue:**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

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

- **Maritime transport IMDG-Code:**
- **IMDG Class:** -
- **Marine pollutant:** NO

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

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:** Observe all safety regulations when handling chemicals.

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- **National regulations**
- **Decree to be applied in case of technical fault:** -
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:**

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