



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 20.07.2009

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Trade name: Nanofix

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- **Information for doctor:**
- **Treatment:** Symptomatic treatment

### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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:** No hazards known
- **Protective equipment:** Wear self-contained respiratory protective device.
- **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 clothing.  
Avoid contact with eyes and skin.
- **Measures for environmental protection:**  
The following information refer to the leakage of large quantities:  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**  
Small quantities:  
If spilled/leaked: absorb main quantity with cloth.  
Dam up larger quantities and pump into containers.  
Rinse residues with water.  
Send for recovery or disposal in suitable receptacles.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store at ambient temperature.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from feed.
- **Further information about storage conditions:** Protect from frost.

### 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:**  
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 creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures should be adhered to when handling chemicals.  
Avoid close or long term contact with the skin.

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Avoid contact with the eyes.

Use skin protection cream for skin protection.

After contact with eyes rinse immediately.

The following instructions regarding the protective equipment refer to the industrial use of larger quantities.

· **Breathing equipment:** Not required.· **Protection of hands:**

At longer contact: 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

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 penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.· **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Clear slightly yellowish
<b>Odour:</b>	Characteristic

#### · Change in condition:

**Melting point/Melting range:** not determined**Boiling point/Boiling range:** not determined· **Flash point:** not applicable· **Self ignition temperature:** Product is not self-igniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Density at 20°C:** 1.057 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

**Water:** Soluble· **pH-value at 20°C:** 3.99

### 10 Stability and reactivity

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

### 11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****Quaternary coco alkyl methyl amine ethoxylate methyl chloride**Oral LD<sub>50</sub> 300- < 2000 mg/kg (rat)**68439-46-3 Alcohols, C9-11, ethoxylated**Oral LD<sub>50</sub> > 2000 mg/kg (rat)

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**5949-29-1 citric acid, monohydrate**Oral LD<sub>50</sub> 6730 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** May cause irritation to the skin.
- **on the eye:** Light irritation possible
- **Sensitization:** No sensitizing effects known.

**12 Ecological information**

- **Ecotoxicological effects:**
- **Aquatic toxicity:**

**68439-46-3 Alcohols, C9-11, ethoxylated**EC<sub>50</sub>/48h 1-10 mg/l (daphnia magna)LC<sub>50</sub>/96h 2.4 mg/l (fish)**Quaternary coco alkyl methyl amine ethoxylate methyl chloride**EC<sub>50</sub>/48h 0.1-1.0 mg/l (daphnia magna)EC<sub>50</sub>/72h 0.1-1.0 mg/l (algae)· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

**13 Disposal considerations**

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



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

Disposal according to instructions of local authorities.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** No hazardous good according to the regulation.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** No hazardous good according to the regulation.

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**15 Regulatory information:****· Markings according to EC guidelines:**

Observe the general safety regulations when handling chemicals

The substance(product)is not subject to classification according to EC-directives and other sources of literature known to us.

**· Safety phrases:**

S-phrase 2 may be omitted if product is only used by professional users.

2 Keep out of the reach of children.

**· Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

**· National regulations****· 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.

**· Relevant R-phrases:**

as mentioned in chapter 3 of the safety data sheet ( not relevant for labelling of the product)

36 Irritating to eyes.

38 Irritating to skin.

41 Risk of serious damage to eyes.

**· Department issuing MSDS:**

KFT Chemieservice GmbH

Im Leuschnerpark. 3 D-64347 Griesheim

Postfach 1451 D-64345 Griesheim

Tel.: +49 6155 86829-0 Fax: +49 6155 86829-25

**· Contact:** Angelika Torges