

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 15.12.2004

Reviewed on 15.12.2004

**\* 1 Identification of substance:****Trade name: Fi-CLOR STAIN & SCALE INHIBITOR****Article number:** 11003 Fi-Clor**Application of the substance / the preparation** Water treatment**Manufacturer/Supplier:**ARCH CHEMICALS Ltd  
Wheldon Road - Castleford - West Yorkshire WF10 2JT - ENGLAND  
Telephone: + 44 (0) 1977 714 100  
Fax: + 44 (0) 1977 712 456**Information in case of emergency:**CALL A LOCAL NATIONAL POISON CONTROL UNIT  
OR ARCH USA CHEMICALS EMERGENCY 24 HOUR TEL No. + 1-423-780-2970  
FOR UK CONTACT NCEC Tel 01865 407 333**2 Composition/Data on components:****Chemical characterization:****CAS No. Description:**

64-02-8 tetrasodium ethylenediaminetetraacetate

**Identification number(s):****EINECS Number:** 200-573-9**3 Hazard identification****Hazard description:**

Xn Harmful

**Information concerning to particular hazards to man and environment**

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4 First aid measures****General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation** Supply fresh air; consult doctor in case of complaints.**After skin contact** Generally the product does not irritate the skin.**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing** Call for a doctor immediately.**5 Fire fighting measures****Suitable extinguishing agents** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**6 Accidental release measures****Person-related safety precautions:** Not required.**Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system.**Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13.**7 Handling and storage****Handling****Information for safe handling:**

Use only in well ventilated areas.

Prevent formation of dust.

**Information about fire - and explosion protection:** No special measures required.**Storage****Requirements to be met by storerooms and receptacles:** Unsuitable material for receptacle: aluminium.

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**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:** Keep receptacle tightly sealed.

### 8 Exposure controls and personal protection gear

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making 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.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.

##### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

##### Eye protection:



Tightly sealed goggles.

### 9 Physical and chemical properties:

#### General Information

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Odourless

#### Change in condition

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	undetermined

<b>Flash point:</b>	Not applicable
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<b>Flammability (solid, gaseous)</b>	Product is not flammable.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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<b>Density:</b>	Not determined
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<b>Bulk density at 20°C:</b>	0.8 g/cm <sup>3</sup>
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<b>Solubility in / Miscibility with Water at 20°C:</b>	450 g/l
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<b>pH-value (10 g/l) at 20°C:</b>	10 - 12
<b>Organic solvents:</b>	0.0 %

### 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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**Dangerous reactions** Violent reactions with strong alkalis and oxidizing agents**Dangerous decomposition products:**

Hydrogen  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

### 11 Toxicological information

**Acute toxicity:****Primary irritant effect:****on the skin:** No irritant effect.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.

### 12 Ecological information:

**Ecotoxicological effects:****Remark:** Harmful to fish**General notes:** Harmful to aquatic organisms

### 13 Disposal considerations

**Product:****Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

**Maritime transport IMDG:****Marine pollutant:** No

### 15 Regulations

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

**Code letter and hazard designation of product:**

Xn Harmful

**Risk phrases:**

22 Harmful if swallowed.

36 Irritating to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

2 Keep out of the reach of children.

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### 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.

\* **Data compared to the previous version altered.**