

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

Printing date 28.12.2004

Reviewed on 28.12.2004

**\* 1 Identification of substance:****Trade name: Fi-CLOR LIQUID CLARIFIER****Article number:** 10100 Fi-Clor**Application of the substance / the preparation**Water treatment  
Flocculant/ Flocculating agent**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****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

39290-78-3 Polychlorosulfate basique d'aluminium

Xi; R 36 10-25%

**Additional information** For the wording of the listed risk phrases refer to section 16.**3 Hazard identification****Hazard description:**

Xi Irritant

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

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

R 36 Irritating to eyes.

**Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**4 First aid measures****After inhalation** Supply fresh air; consult doctor in case of complaints.**After skin contact**

Rinse with warm water.

Immediately rinse with water.

**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing** If symptoms persist consult doctor.**5 Fire fighting measures****Suitable extinguishing agents** Water spray**Protective equipment:** No special measures required.**6 Accidental release measures****Person-related safety precautions:** Not required.**Measures for environmental protection:**

Keep contaminated washing water and dispose of appropriately.

Dilute with plenty of water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 2)

# Material Safety Data Sheet

According to 91/155 EEC

Printing date 28.12.2004

Reviewed on 28.12.2004

Trade name: **Fi-CLOR LIQUID CLARIFIER**

(Contd. of page 1)

## 7 Handling and storage

### Handling

**Information for safe handling:** No special precautions are necessary if used correctly.

**Information about fire - and explosion protection:** No special measures required.

### Storage

**Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

**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:

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 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:** Not required.

#### Protection of hands:

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Odourless

### Change in condition

**Melting point/Melting range:** -10°C

**Boiling point/Boiling range:** > 100°C

**Flash point:** Not applicable

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Density at 20°C:** 1.16 g/cm<sup>3</sup>

**Solubility in / Miscibility with Water:** Fully miscible

**pH-value at 20°C:** 2 - 3

(Contd. on page 3)

# Material Safety Data Sheet

According to 91/155 EEC

Printing date 28.12.2004

Reviewed on 28.12.2004

Trade name: **Fi-CLOR LIQUID CLARIFIER**

(Contd. of page 2)

**Solvent content:**  
**Organic solvents:** 0.0 %

## 10 Stability and reactivity

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

## 11 Toxicological information

**Acute toxicity:**  
**Primary irritant effect:**  
**on the skin:** No irritant effect.  
**on the eye:** Irritating 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.  
 Irritant

## 12 Ecological information:

**General notes:** Generally not hazardous for water.

## 13 Disposal considerations

### Product:

#### Recommendation

Must be specially treated adhering to official regulations.  
 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

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

**ADR/RID class:** N.A.

### Maritime transport IMDG:

**IMDG Class:** N.A.  
**Marine pollutant:** No

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

**ICAO/IATA Class:** N.A.

## 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:



Xi Irritant

### Risk phrases:

36 Irritating to eyes.

### Safety phrases:

2 Keep out of the reach of children.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 28 After contact with skin, wash immediately with plenty of water.  
 46 If swallowed, seek medical advice immediately and show this container or label.

(Contd. on page 4)

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

Printing date 28.12.2004

Reviewed on 28.12.2004

Trade name: **Fi-CLOR LIQUID CLARIFIER**

(Contd. of page 3)

**National regulations****Waterhazard class:** Generally not 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**

36 Irritating to eyes.

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