

**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 GRANULAR FLOC****Article number:** 10102 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

**2 Composition/Data on components:****Chemical characterization:****CAS No. Description:**

10043-01-3 aluminium sulphate

**Identification number(s):****EINECS Number:** 233-135-0**3 Hazard identification****Hazard description:**

Xi Irritant

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

R 36/37/38 Irritating to eyes, respiratory system and skin.

**4 First aid measures****General information** Take affected persons out into the fresh air.**After inhalation** In case of unconsciousness place patient stably in side position for transportation.**After skin contact**

Rinse with warm water.

Immediately wash with water and soap and rinse thoroughly.

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.

Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:** Ensure adequate ventilation.**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.

(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 GRANULAR FLOC**

(Contd. of page 1)

**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:****10043-01-3 aluminium sulphate**OES Long-term value: 2 mg/m<sup>3</sup>**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 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Tightly sealed goggles.

**Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

### General Information

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

### Change in condition

<b>Melting point/Melting range:</b>	770 (Zers.)°C
<b>Boiling point/Boiling range:</b>	undetermined

<b>Flash point:</b>	Not applicable
---------------------	----------------

<b>Flammability (solid, gaseous)</b>	Product is not flammable.
--------------------------------------	---------------------------

### Ignition temperature:

<b>Decomposition temperature:</b>	85/95°C
-----------------------------------	---------

<b>Danger of explosion:</b>	Product does not present an explosion hazard.
-----------------------------	---

<b>Density at 20°C:</b>	2.71 g/cm <sup>3</sup>
-------------------------	------------------------

<b>Solubility in / Miscibility with Water at 20°C:</b>	300 g/l
--	---------

<b>pH-value (10 g/l) at 20°C:</b>	3.0
-----------------------------------	-----

(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 GRANULAR FLOC**

(Contd. of page 2)

Solids content: 100.0 %

## 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Dangerous reactions** Reacts with strong alkali**Dangerous decomposition products:** Poisonous gases/vapours

## 11 Toxicological information

**Acute toxicity:****Primary irritant effect:****on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.

## 12 Ecological information:

**General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

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

## 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

**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:**

Xi Irritant

**Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

**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.

**National regulations****Waterhazard class:** Water hazard class 1 (Assessment by list): 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.

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