

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

Printing date 09.12.2004

Reviewed on 09.12.2004

**\* 1 Identification of substance:****Trade name:** **Fi-CLOR ALKALINITY INCREASER****Article number:** 10007 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:**

144-55-8 sodium hydrogencarbonate

**Identification number(s):****EINECS Number:** 205-633-8**3 Hazard identification****Hazard description:** not applicable**Information concerning to particular hazards to man and environment** not applicable**4 First aid measures****General information** No special measures required.**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. Then consult a doctor.**After swallowing** If symptoms persist consult doctor.**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.**Protective equipment:** No special measures required.**6 Accidental release measures****Person-related safety precautions:** Not required.**Measures for environmental protection:** No special measures required.**Measures for cleaning/collecting:** Pick up mechanically.**Additional information:** No dangerous substances are released.**7 Handling and storage****Handling****Information for safe handling:** No special measures required.**Information about fire - and explosion protection:** No special measures required.**Storage****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None.**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.

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**Additional information:** The lists valid during the making were used as basis.**Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

**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.

**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:** Not required.

## 9 Physical and chemical properties:

**General Information**

**Form:** Crystalline powder  
**Colour:** White  
**Odour:** Odourless

**Change in condition****Melting point/Melting range:** 45 à 50°C**Boiling point/Boiling range:** undetermined**Flash point:** Not applicable**Flammability (solid, gaseous)** Product is not flammable.**Ignition temperature:****Decomposition temperature:** 70°C**Danger of explosion:** Product does not present an explosion hazard.**Density at 20°C:** 2.2 g/cm<sup>3</sup>**Solubility in / Miscibility with****Water at 20°C:** 95 g/l**pH-value (100 g/l) at 20°C:** 6.5

## 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:** No irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

## 12 Ecological information:

**General notes:** Not known to be hazardous to water.

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**13 Disposal considerations****Product:****Recommendation** Smaller quantities can be disposed of with household waste.**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****Land transport ADR/RID (cross-border)****ADR/RID class:** -**Maritime transport IMDG:****IMDG Class:** -**Marine pollutant:** No**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -**15 Regulations****Labelling according to EU guidelines:**

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**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.

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

**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.**