

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.04.2012

Rev. Index : 10

Revision: 17.04.2012

### \* 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** **Fi-CLOR™ SPA NON-CHLORINE SHOCK**

**Article number:** 11510 FiClor 2

**CAS / IUPAC** pentapotassium bis(peroxymonosulphate) bis(sulphate)

**CAS Number:**

70693-62-8

**EC number:**

274-778-7

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Sector of Use** SU21 Consumer uses: Private households / general public / consumers

#### Product category

PC37 Water treatment chemicals

PC8 Biocidal products (e.g. Disinfectants, pest control)

**Application of the substance / the preparation** Water disinfectant

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Arch Water Products France now part of

LONZA MICROBIAL CONTROL

BP 219 - 37402 Amboise Cedex - FRANCE

phone : +33 (0)2 47 23 43 00

fax : +33 (0)2 47 23 12 21

framsds-reach.france.euwater@lonza.com

#### Further information obtainable from:

ARCH CHEMICALS Ltd now part of

LONZA MICROBIAL CONTROL

Wheldon Road - Castleford - West Yorkshire WF10 2JT - ENGLAND

Telephone: + 44 (0) 1977 714 100

Fax: + 44 (0) 1977 714 002

#### 1.4 Emergency telephone number:

Europe >>> NCEC - Tel. +44 (0)1235 239 670

Africa & Middle East >>> NCEC - Tel. +44 (0)1235 239 671

N.AMERICA >>> ACEAN (Arch Chemicals Emergency Action Network) - Tel. +1 423 780 2970}

CALL A LOCAL NATIONAL POISON CONTROL UNIT

FOR UK CONTACT NCEC Tel 01865 407 333

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## \* 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R34: Causes burns.



Xn; Harmful

R22: Harmful if swallowed.

R52: Harmful to aquatic organisms.

**Information concerning particular hazards for human and environment:** not applicable

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS05 GHS07

**Signal word** Danger

#### Hazard-determining components of labelling:

pentapotassium bis(peroxymonosulphate)bis(sulphate)

#### Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101      If medical advice is needed, have product container or label at hand.

P102      Keep out of reach of children.

P103      Read label before use.

P260      Do not breathe dust/fume/gas/mist/vapours/spray.

P264      Wash thoroughly after handling.

P270      Do not eat, drink or smoke when using this product.

P273      Avoid release to the environment.

P280      Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312      IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331      IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353      IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340      IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****3.1 Chemical characterization: Substances****CAS No. Description:**

70693-62-8 pentapotassium bis(peroxymonosulphate)bis(sulphate)

**Identification number(s):****EC number:** 274-778-7**\* 4 First aid measures****4.1 Description of first aid measures****General information**

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

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

**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 (15) under running water. Then consult a doctor.**After swallowing**

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents** Water**For safety reasons unsuitable extinguishing agents** Carbon dioxide**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** No special measures required.**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.

Inform respective authorities in case of seepage into water course or sewage system.

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

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**6.3 Methods and material for containment and cleaning up:**

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**\* 7 Handling and storage****7.1 Precautions for safe handling**

Avoid splashes or spray in enclosed areas.

Thorough dedusting.

**Handling**

DO NOT MIX WITH OTHER PRODUCTS  
DO NOT DISSOLVE BEFORE USE

**Information about fire - and explosion protection:**

Dust can combine with air to form an explosive mixture.

The product is not flammable

**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.**Information about storage in one common storage facility:** Store away from flammable substances.**Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****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:** Not required.**Protection of hands:**

Rubber gloves



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.

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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

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value (30 g/l) at 20°C:** 1.5 à 2.5**Change in condition**

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

**Flash point:** Not applicable**Flammability (solid, gaseous)** Product is not flammable.**Ignition temperature:****Decomposition temperature:** >70°C**Self-igniting:** Not determined.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure:** Not applicable.**Density at 20°C:** 1.2 g/cm<sup>3</sup>**Relative density** Not determined.**Vapour density** Not applicable.**Evaporation rate** Not applicable.**Solubility in / Miscibility with****Water:** Soluble**Segregation coefficient (n-octanol/water):** Not determined.

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**Viscosity:****dynamic:** Not applicable.**kinematic:** Not applicable.**Organic solvents:** 0.0 %**Solids content:** 100.0 %**9.2 Other information** No further relevant information available.**\* 10 Stability and reactivity****10.1 Reactivity****10.2 Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions**

Reacts with heavy metals

Reacts with halogenated compounds

Reacts with strong oxidizing agents

Reacts with alcohols, amines, aqueous acids and alkalis

**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** Poisonous gases/vapours**\* 11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:** Caustic effect on skin and mucous membranes.**on the eye:** Strong caustic effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**\* 12 Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** Anorganic product, is not removable from water by biological cleaning process**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** Harmful to fish**Additional ecological information:****General notes:**

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

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

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Harmful to aquatic organisms

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

### 13.1 Waste treatment methods

#### 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

### 14.1 UN-Number

ADR, IMDG, IATA UN3260

### 14.2 UN proper shipping name

ADR 3260 Corrosive solid, acidic, inorganic, n.o.s., pentapotassium bis(peroxymonosulphate)bis(sulphate)  
IMDG, IATA CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (pentapotassium bis(peroxymonosulphate)bis(sulphate))

### 14.3 Transport hazard class(es)

#### ADR



Class 8 (C2) Corrosive substances.

Label 8

#### IMDG, IATA



Class 8 Corrosive substances.

Label 8

### 14.4 Packing group

ADR, IMDG, IATA III

### 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A,S-B

Segregation groups Acids

### 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

### Transport/Additional information:

#### ADR

Excepted quantities (EQ): E1

Limited quantities (LQ) 5 kg

Tunnel restriction code E

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**UN "Model Regulation":**

UN3260; CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.; 8; III

## 15 Regulatory information

**Directive 98/8/EC**

Best before : see date on packaging

Providing this container when empty is thoroughly rinsed out in the pool, it may be disposed of via the recycling scheme

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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