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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 27.05.2009

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## 1 Identification of substance:

Trade name: Fi-CLOR SUPERFAST SHOCK

Article number: 11602 Fi-Clor 2 Application of the substance / the preparation Water treatment Water disinfectant Sanitation of water intended for human consumption

### Manufacturer/Supplier:

ARCH WATER PRODUCTS FRANCE BP 219 - 37402 Amboise Cedex - FRANCE phone : +33 (0)2 47 23 43 00 fax : +33 (0)2 47 23 12 21 mail : archwpf@archchemicals.com

### Further information obtainable from:

ARCH CHEMICALS Ltd Wheldon Road - Castleford - West Yorkshire WF10 2JT - ENGLAND Telephone: + 44 (0) 1977 714 100 Fax: + 44 (0) 1977 714 006 **Information in case of chemical emergency:** 

NCEC - Tel. +44 (0)208 762 8322

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

## 2 Hazards identification

### Hazard description:

C Corr O Oxid

C Corrosive O Oxidising

N Dangerous for the environment

### 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 8 Contact with combustible material may cause fire.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

Warning! Do not use together with other products. May release dangerous gases (chlorine).

### Classification system

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

**GHS** label elements



2.14/2 - May intensify fire; oxidizer.



3.2/1B - Causes severe skin burns and eye damage.

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4.1/1 - Very toxic to aquatic life.

# **Warning**

Warning

3.1/4 - Harmful if swallowed.

### **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep/Store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

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

Wash thoroughly after handling.

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

Avoid release to the environment.

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

### **Response:**

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see label).

Rinse mouth.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO2, powder or water spray.

#### Collect spillage.

Storage:

Store locked up.

### **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

## **3** Composition/information on ingredients

### **Chemical characterization**

Description: Mixture of substances listed below with nonhazardous additions.

### **Dangerous components:**

0	<b>1</b>		
CAS: 7778-54-3	calcium hypochlorite	50-100%	
EINECS: 231-908-7	C, Xn, O, N; R 8-22-31-34-50		
	Danger: Flame over circle 2.14/2; Skull and crossbones 3.1.0/3; Corrosion 3.2/1B		
	Warning: Environment 4.1.A/1		
CAS: 1305-62-0	calcium dihydroxide	2.5-10%	
EINECS: 215-137-3	Xi; R 41		
	Danger: Corrosion 3.2/1B		
CAS: 10043-52-4	calcium chloride	0-4%	
EINECS: 233-140-8	Xi; R 36		
	Warning: Exclamation mark 3.3/2A		
Additional information Earth and in a file list drick shares refer to action 10			

Additional information For the wording of the listed risk phrases refer to section 16.

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## 4 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.

After eye contact Rinse opened eye for several minutes (15) under running water. Then consult a doctor.

### After swallowing

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

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

## **5** Fire fighting measures

Suitable extinguishing agents Water spray

For safety reasons unsuitable extinguishing agents Extinguishing powder.

Protective equipment: Mount respiratory protective device.

### 6 Accidental release measures

### **Person-related safety precautions:**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

### Measures for environmental protection:

Keep contaminated washing water and dispose of appropriately.

Do not allow product to reach sewage system or any water course.

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

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

#### Measures for cleaning/collecting:

Use neutralizing agent.

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

## 7 Handling and storage

### Handling

**Information for safe handling:** Thorough dedusting.

Information about fire - and explosion protection: Substance/product is oxidizing when dry.

### Storage

### Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Do not store product where the average daily temperature exceeds 35°C. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products

### Information about storage in one common storage facility:

Store away from flammable substances.

Store away from reducing agents.

Do not store together with acids.

Further information about storage conditions: Keep receptacle tightly sealed.

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## 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 and skin.

### **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed. Use suitable respiratory protective device when high concentrations are present. Filter P2.

### **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

Chloroprene rubber, CR

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**

Form:	Granulate
Colour:	Whitish
Odour:	Characteristic

Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined

Flash point:Not applicable

Flammability (solid, gaseous) Contact with combustible material may cause fire.

**Ignition temperature:** 

Decomposition temperature: 170 - 180°C

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Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20°C:	0.8 g/cm <sup>3</sup>
Solubility in / Miscibility wi Water:	th Partly soluble
pH-value (10 g/l) at 20°C:	10.5 / 11.5
Solvent content: Organic solvents:	0.0 %
Solids content:	100.0 %

## 10 Stability and reactivity

### Thermal decomposition / conditions to be avoided:

Do not store product where the average daily temperature exceeds 35°C.

Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products

### **Dangerous reactions**

Reacts with strong oxidizing agents

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with flammable substances

NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR or DICHLOR) WITHIN THE SAME CONTAINER

Dangerous decomposition products: Poisonous gases/vapours

## 11 Toxicological information

### Acute toxicity:

### LD/LC50 values relevant for classification:

7778-54-3 calcium hypochlorite

Oral LD50 850 mg/kg (rat)

### 1305-62-0 calcium dihydroxide

Oral LD50 7340 mg/kg (rat)

10043-52-4 calcium chloride

Oral LD50 1000 mg/kg (rat)

### **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:

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.

Harmful

Corrosive

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

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## **12 Ecological information:**

**Ecotoxical effects:** 

### Acquatic toxicity:

Oral LC50 - 48 hrs 0.11 mg/l (daphnia magna)

LC50 - 96 hrs 0.088 mg/l (bluegill sunfish) 0.16 mg/l (rainbow trout)

#### **Remark:**

Very toxic for fish

Oral LD/LC50 > 3474 ppm (bobwhite quail)

> 5000 ppm (mallard duck)

### **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Very toxic for aquatic organisms

## 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:5.1 (O2) Oxidising substances.Danger code (Kemler):50UN-Number:2880Packaging group:IIHazard label5.1Description of goods:2880 CALCIUM HYPOCHLORITE, HYDRATED, mixture

### Maritime transport IMDG:



IMDG Class:	5.1
UN Number:	2880
Label	5.1
Packaging group:	II

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EMS Number:F-H,S-QMarine pollutant:NoProper shipping name:CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

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



ICAO/IATA Class: 5.1 UN/ID Number: 2880 Label 5.1 Packaging group: II

**Proper shipping name:** CALCIUM HYPOCHLORITE, HYDRATED MIXTURE **UN ''Model Regulation'':** UN2880; CALCIUM HYPOCHLORITE, HYDRATED MIXTURE; 5.1; II **Environmental hazards:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

## <sup>15</sup> Regulations

### Labelling according to EU guidelines:

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

### BPD labelling

- Best before : see date on packaging
- Dispose of this material and its container to hazardous or special waste collection point.
- Providing this container when empty is thoroughly rinsed out in the pool, it may be disposed of via the recycling scheme

### Code letter and hazard designation of product:



O Oxidising N Dangerous for the environment

### Hazard-determining components of labelling:

calcium hypochlorite

### **Risk phrases:**

- 8 Contact with combustible material may cause fire.
- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 34 Causes burns.
- 50 Very toxic to aquatic organisms.

### Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29 Do not empty into drains.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### **Special labelling of certain preparations:**

Warning! Do not use together with other products. May release dangerous gases (chlorine).

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## Trade name: Fi-CLOR SUPERFAST SHOCK

### National regulations

Waterhazard class: Water hazard class 2 (Self-assessment): 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**

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 34 Causes burns.
- 36 Irritating to eyes.
- 41 Risk of serious damage to eyes.
- 50 Very toxic to aquatic organisms.
- 8 Contact with combustible material may cause fire.

#### 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

