Page 1/10

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

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

Article number: 11707 FiClor 3

REGULATION (EC) No 1272/2008 - ANNEX VI - International Chemical Identification

troclosene sodium, dihydrate

**CAS Number:** 51580-86-0 EC number: 220-767-7 Index number: 613-030-01-7

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

Application of the substance / the mixture Water treatment - Solid Chlorinating agent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Arch Water Products France now part of LONZA SPECIALTY INGREDIENTS

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 SPECIALTY INGREDIENTS

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

Telephone: + 44 (0) 1977 714 100 Fax: + 44 (0) 870 889 5277

1.4 Emergency telephone number:

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

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

(Contd. on page 2)

Printing date 16.01.2018 Revision: 16.01.2018 Rev. Index: 34

#### Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 1)

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

CALL A LOCAL NATIONAL POISON CONTROL UNIT

FOR UK CONTACT NCEC Tel 01865 407 333

#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS09 environment

H400 Very toxic to aquatic life. Aquatic Acute 1

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eve Irrit. 2 H319 Causes serious eve irritation. STOT SE 3 H335 May cause respiratory irritation.

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





**GHS07 GHS09** 

#### Signal word Warning

#### Hazard-determining components of labelling:

sodium dichloroisocyanurate, dihydrate

**Hazard statements** 

H302 Harmful if swallowed.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H410 Very toxic 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. Avoid breathing dust/fume/gas/mist/vapours/spray. P261

P264

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area.

P273 Avoid rélease to the environment.

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

protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+P312 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

(Contd. on page 3)

Printing date 16.01.2018 Revision: 16.01.2018 Rev. Index: 34

#### Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 2)

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Dispose of contents/container to special treatment scheme according to P501

official regulations.

Additional information:

EUH031 Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases

2.3 Other hazards

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

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

3.1 Chemical characterisation: Substances

CAS No. Description: 51580-86-0 sodium dichloroisocyanurate, dihydrate

Identification number(s): EC number: 220-767-Index number: 613-030-01-7

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**General information** 

Take affected persons out into the fresh air.

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

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact Rinse with warm water.

After eve contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty

Coughing Naušea

Gastric or intestinal disorders.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing agents

Water spray

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents Extinguishing powder.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO) Hydrogen chloride (HCI)

(Contd. on page 4)

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 3)

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. 6.2 Environmental precautions:

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.

6.3 Methods and material for containment and cleaning up:

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.

### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

#### Handling



DO NOT MIX WITH OTHER PRODUCTS DO NOT DISSOLVE BEFORE USE

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

# 7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles. Do not use light alloy receptacles.

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.

7.3 Specific end use(s) No further relevant information available.

### SECTION 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:

### CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

WEL | Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m³

Sen; as -NCO

**Additional information:** The lists valid during the making were used as basis.

(Contd. on page 5)

Printing date 16.01.2018 Revision: 16.01.2018 Rev. Index: 34

#### Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 4)

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.

Avoid contact with the eyes and skin.

Respiratory protection:

Filter P2

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:

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.

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

Material of gloves

Chloroprene rubber, CR

PVC gloves

Nitrile rubber, NBR

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:** 



Tightly sealed goggles.

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Granulate Form: White Colour: Odour: Like chlorine **Odour threshold:** Not determined.

pH-value:

Change in condition

250 °C **Melting point/freezing point:** 

Initial boiling point and boiling range: undetermined

Flash point: Not applicable

(Contd. on page 6)

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 5)

Product is not flammable. Flammability (solid, gaseous)

Ignition temperature: 250 °C 250 °C **Decomposition temperature:** 

**Auto-ignition temperature:** Not determined.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

Lower: Not determined. Not determined. Upper: Vapour pressure: Not applicable.

Density at 20 °C: 1 g/cm<sup>3</sup>

1,000 kg/m<sup>3</sup> **Bulk density:** Relative density Not determined. Vapour density Not applicable. **Evaporation rate** Not applicable.

Solubility in / Miscibility with

Water at 25 °C: 250 g/l

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

dynamic: Not applicable. kinematic: Not applicable.

Solids content: 100,0 %

9.2 Other information No further relevant information available.

#### **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.
10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

NEVER MIX THIS PRODUCT WITH INORGANIC CHLORINE (HYPOCHLORITE) WITHIN

THE SAME CONTAINER

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with flammable substances

Reacts with strong oxidizing agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

Poisonous gases/vapours Hydrogen chloride (HCl) Carbon monoxide

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 6)

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

**Acute toxicity** 

Harmful if swallowed.

LD/LC50 values relevant for classification:

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

Oral LD50 1,400 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

**STÓT-repeated** exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available. **12.3 Bioaccumulative potential** No further relevant information available.

12.4 Mobility in soil No further relevant information available.

**Ecotoxical effects:** 

Remark: Very toxic for fish Additional ecological information:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system. 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
12.5 Results of PBT and vPvB assessment

**PBT**: Not applicable. vPvB: Not applicable.

**12.6 Other adverse effects** No further relevant information available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation

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.

Revision: 16.01.2018 Printing date 16.01.2018 Rev. Index: 34

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 7)

**SECTION 14: Transport information** 

14.1 UN-Number

ADR, IMDG

14.2 UN proper shipping name

ADR

3077 ENVIRONMENTALLY HAZARDOUS

**IMDG** 

UN3077

SUBSTANCE, SOLID, N.O.S. (sodium dichloroisocyanurate, dihydrate)
ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S. (sodium dichloroisocyanurate, dihydrate), MARINE

POLLUTANT

14.3 Transport hazard class(es)

**ADR** 

Allh

9 (M7) Miscellaneous dangerous substances Class

and articles.

Label

**IMDG** 

Allh

9 Miscellaneous dangerous substances and Class

Ш

articles.

Label

14.4 Packing group

ADR, IMDG

14.5 Environmental hazards:

Marine pollutant:

Yes

Symbol (fish and tree) Special marking (ADR):

Symbol (fish and tree) Warning: Miscellaneous dangerous substances 14.6 Special precautions for user

and articles. 90

Danger code (Kemler):

F-A,S-F **EMS Number:** 

**Stowage Category** 

SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. **Stowage Code** 

14.7 Transport in bulk according to Annex II

of Marpol and the IBC Code

Not applicable.

**Transport/Additional information:** 

**E**1 **Excepted quantities (EQ):** 5 kg Limited quantities (LQ) Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging:

1000 g

Transport category

(Contd. on page 9)

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

Ε **Tunnel restriction code** 

(Contd. of page 8)

**IMDG** 

Limited quantities (LQ)

**Excepted quantities (EQ)** 

5 kg Code: E1

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging:

1000 g

**UN "Model Regulation":** 

UN 3077 / UN 3082 - These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 I or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions provided the packagings meet general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOROISOCYANURATE, DIHYDRATE), 9 III

9, III

### **SECTION 15: Regulatory information**

**REGULATION (EU) No 528/2012** 

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

**National regulations** 

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 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:

ADDreviations and acronyms:

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

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

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonised 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)

LC50: Lethal concentration. 50 percent

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 10)

Page 10/10

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

Printing date 16.01.2018 Rev. Index: 34 Revision: 16.01.2018

#### Trade name: Fi-CLOR™ SPA CHLORINE GRANULES

(Contd. of page 9)

vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
\* Data compared to the previous version altered.

GB