

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

* 1 Identification of substance:

Trade name: **Fi-CLOR MINI-BUOY**

Article number: 11713 Fi-Clor

Application of the substance / the preparation

Water treatment
Water disinfectant

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

sds-reach.euwater@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:



Xn Harmful
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 22 Harmful if swallowed.
R 31 Contact with acids liberates toxic gas.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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



Danger

H272 - May intensify fire; oxidiser.

(Contd. on page 2)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: Fi-CLOR MINI-BUOY

(Contd. of page 1)

**Danger**

H318 - Causes serious eye damage.

**Warning**

H400 - Very toxic to aquatic life.

**Warning**

H302+EUH031 - Harmful if swallowed. Contact with acids liberates toxic gas.

H335 - May cause respiratory irritation.

Prevention:

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response: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.

Storage:

P405 Store locked up.

Disposal:

P501 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:**

CAS: 87-90-1	Symclosene { trichloroisocyanuric acid <> trichloro-1,3,5-triazinetriion }	50-100%
EINECS: 201-782-8	Xn, Xi, O, N; R 8-22-31-36/37-50/53	
	Danger: flame over circle 2.14/2	
	Warning: environment 4.1.C/1; exclamation mark 3.1.O/4, 3.3/2, 3.8/3	
CAS: 10043-01-3	aluminium sulphate	10-25%
EINECS: 233-135-0	Xi; R 41	
	Danger: corrosion 3.3/1	

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

4 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 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 under running water. If symptoms persist, consult a doctor.**After swallowing** Call for a doctor immediately.

(Contd. on page 3)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: **Fi-CLOR MINI-BUOY**

(Contd. of page 2)

5 Fire fighting measures

Suitable extinguishing agents Water spray**For safety reasons unsuitable extinguishing agents** Extinguishing powder.**Special hazards caused by the substance, its products of combustion or resulting gases:**

During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO)

Hydrogen chloride (HCl)

Protective equipment: Mount respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Mount respiratory protective device.**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:

Dispose contaminated material as waste according to item 13.

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:**

Substance/product is oxidizing when dry.

Keep respiratory protective device available.

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.

Store away from reducing agents.

Do not store together with acids.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

(Contd. on page 4)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: Fi-CLOR MINI-BUOY

(Contd. of page 3)

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.

Neoprene gloves

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:	Tablets
Colour:	White
Odour:	Characteristic

Change in condition**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** undetermined**Flash point:** Not applicable**Ignition temperature:** 250°C**Decomposition temperature:** 220 - 230°C**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Density at 20°C:** 1.900 g/cm³**Solubility in / Miscibility with****Water at 20°C:** 12 g/l**pH-value at 20°C:** 3

(Contd. on page 5)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: **Fi-CLOR MINI-BUOY**

(Contd. of page 4)

Solvent content:**Organic solvents:** 0.0 %**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 oxidizing agents

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with flammable substances

NEVER MIX THIS PRODUCT WITH INORGANIC CHLORINE (HYPOCHLORITE) WITHIN THE SAME CONTAINER

Dangerous decomposition products: Poisonous gases/vapours**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****87-90-1 Symclosene {trichloroisocyanuric acid <> trichloro-1,3,5-triazinetriion}**

Oral LD50 490 mg/kg

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating 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

Irritant

12 Ecological information:**Ecotoxicological effects:****Remark:** Very toxic for fish**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.

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

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.

(Contd. on page 6)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: **Fi-CLOR MINI-BUOY**

(Contd. of page 5)

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 5.1 (O2) Oxidising substances.
Danger code (Kemler): 50
UN-Number: 2468
Packaging group: II
Hazard label 5.1
Special marking: Symbol (fish and tree)
Description of goods: 2468 TRICHLOROISOCYANURIC ACID, DRY
Limited quantities (LQ) LQ11

Maritime transport IMDG:

IMDG Class: 5.1
UN Number: 2468
Label 5.1
Packaging group: II
EMS Number: F-A,S-Q
Marine pollutant: No
 Symbol (fish and tree)
Proper shipping name: TRICHLOROISOCYANURIC ACID, DRY

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 5.1
UN/ID Number: 2468
Label 5.1
Packaging group: II
Proper shipping name: TRICHLOROISOCYANURIC ACID, DRY
UN "Model Regulation": UN2468, TRICHLOROISOCYANURIC ACID, DRY, 5.1, II

15 Regulations

Labelling according to EU guidelines:

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

(Contd. on page 7)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: Fi-CLOR MINI-BUOY

(Contd. of page 6)

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:

Xn Harmful
N Dangerous for the environment

Hazard-determining components of labelling:

Symclosene {trichloroisocyanuric acid <> trichloro-1,3,5-triazinetriion}
aluminium sulphate

Risk phrases:

- 22 Harmful if swallowed.
31 Contact with acids liberates toxic gas.
36/37/38 Irritating to eyes, respiratory system and skin.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

- 2 Keep out of the reach of children.
8 Keep container dry.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29 Do not empty into drains.
41 In case of fire and/or explosion do not breathe fumes.
46 If swallowed, seek medical advice immediately and show this container or label.
60 This material and its container must be disposed of as hazardous waste.
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).

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.
36/37 Irritating to eyes and respiratory system.
41 Risk of serious damage to eyes.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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)

(Contd. on page 8)

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

Printing date 16.01.2010

Rev. Index : 1

Revision: 16.01.2010

Trade name: Fi-CLOR MINI-BUOY

(Contd. of page 7)

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.**