

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

Printing date 17.01.2011

Rev. Index : 10

Revision: 17.01.2011

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

### Product identifier

Trade name: **Fi-CLOR MAXI-TABS**

Article number: 11700 FiClor 1

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

#### Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Product category

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

PC37 Water treatment chemicals

#### Application of the substance / the preparation

Water treatment

Water disinfectant

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

#### 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 714 002

#### 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

## \* 2 Hazards identification

### Classification of the substance or mixture

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



GHS09 environment

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

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GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
Eye Irrit. 2      H319 Causes serious eye irritation.  
STOT SE 3      H335 May cause respiratory irritation.

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

Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37: Irritating to eyes and respiratory system.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R31: Contact with acids liberates toxic gas.

**Information concerning particular hazards for human 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.

**Classification system:**

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

**Label elements****Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**

GHS07 GHS09

**Signal word** Warning**Hazard-determining components of labelling:**

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

**Hazard statements**

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

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

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

**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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

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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.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures****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 R22; Xi R36/37; O R8; N R50/53 R31 GHS03 Ox. Sol. 2, H272; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; GHS07 Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 10043-35-3	boric acid	<5.5%
EINECS: 233-139-2	T R60-61 GHS08 Repr. 1B, H360	

**SVHC**

10043-35-3 boric acid

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

### 4 First aid measures

**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 eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing** Call for a doctor immediately.

### 5 Firefighting measures

**Extinguishing media****Suitable extinguishing agents** Water spray

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**For safety reasons unsuitable extinguishing agents** Extinguishing powder.

**Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.

**Advice for firefighters**

**Protective equipment:** Mount respiratory protective device.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.

**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.

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## \* 7 Handling and storage

**Handling**



DO NOT MIX WITH OTHER PRODUCTS  
DO NOT DISSOLVE BEFORE USE

**Precautions 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.

**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.

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/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**

**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.

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**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:**

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:**

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. 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 through 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

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

**Form:** Tablets  
**Colour:** White  
**Odour:** Characteristic

**pH-value at 20°C:** 3

**Change in condition**

**Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** undetermined

**Flash point:** Not applicable

**Ignition temperature:**

**Decomposition temperature:** 220 - 230°C

**Self-igniting:** Product is not selfigniting.

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**Danger of explosion:** Product does not present an explosion hazard.

**Density at 20°C:** 1.900 g/cm<sup>3</sup>

**Solubility in / Miscibility with  
Water at 20°C:** 12 g/l

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

**Solids content:** 100.0 %

## 10 Stability and reactivity

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

#### Possibility of hazardous 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**

**Hazardous decomposition products:** Poisonous gases/vapours

## \* 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

##### LD/LC50 values relevant for classification:

**87-90-1 Symclosene {trichloroisocyanuric acid <> trichloro-1,3,5-triazinetriol}**

Oral LD50 490 mg/kg (rat)

**10043-35-3 boric acid**

Oral LD50 2660 mg/kg (rat)

#### Primary irritant effect:

**on the skin:** No irritant effect.

**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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Contains less than 5.5% of boric acid(Repr. 1B; H360FD: C ≥ 5,5 %).

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

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**Ecotoxicological effects:****Remark:** Very toxic for fish**Additional ecological information:****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

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**13 Disposal considerations****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.**\* 14 Transport information****Land transport ADR/RID (cross-border)****ADR/RID class:** 9 (M7) Miscellaneous dangerous substances and articles.**Danger code (Kemler):** 90**UN-Number:** 3077**Packaging group:** III**Hazard label** 9**Special marking:** Symbol (fish and tree)**UN proper shipping name:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(TRICHLOROISOCYANURIC ACID)**Excepted quantities (EQ):** E1**Limited quantities (LQ):** LQ27**Tunnel restriction code** E**Maritime transport IMDG:****IMDG Class:** 9**UN Number:** 3077**Label** 9**Packaging group:** III

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**EMS Number:** F-A,S-B  
**Marine pollutant:** Symbol (fish and tree)  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (TRICHLOROISOCYANURIC ACID)

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

**ICAO/IATA Class:** 9  
**UN/ID Number:** 3077  
**Label:** 9  
**Special marking:** Symbol (fish and tree)  
**Packaging group:** III  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (TRICHLOROISOCYANURIC ACID)

UN "Model Regulation": UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

**Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

## \* 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

**Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

Contains less than de 5.5% of boric acid (Repr. 1B; H360FD: C ≥ 5,5 %).

Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) of the European Chemical Agency (ECHA)

**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.

**Relevant phrases**

H272 May intensify fire; oxidiser.  
 H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H360 May damage fertility or the unborn child.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 .....  
 R22 Harmful if swallowed.  
 R31 Contact with acids liberates toxic gas.

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R36/37 Irritating to eyes and respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R60 May impair fertility.

R61 May cause harm to the unborn child.

R8 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.**