

*** 1 Identification of substance:****Trade name: Fi-CLOR EXTRA STRONG ALGICIDE****Article number:** 11109 Fi-Clor**Application of the substance / the preparation**

Water treatment

Algicide

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}

CALL A LOCAL NATIONAL POISON CONTROL UNIT

FOR UK CONTACT NCEC Tel 01865 407 333

2 Hazards identification**Hazard description:**

C Corrosive

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 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

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**

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

**Warning**

4.1/1 - Very toxic to aquatic life.

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 1)

**Warning**

3.1/4 - Harmful if swallowed.

3.1/4 - Harmful in contact with skin.

Prevention:

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: Wash with plenty of soap and water.

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.

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

Specific treatment (see label).

Specific measures (see label).

Rinse mouth.

Wash contaminated clothing before reuse.

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:**

CAS: 68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	10-25%
EINECS: 270-325-2	C, Xn, N; R 21/22-34-50	
	Danger: Skull and crossbones 3.1.O/3, 3.1.D/3; Corrosion 3.2/1B	
	Warning: Environment 4.1.A/1	
CAS: 141-43-5	2-aminoethanol	2.5-10%
EINECS: 205-483-3	C, Xn; R 20/21/22-34	
	Danger: Skull and crossbones 3.1.O/3, 3.1.D/3, 3.1.I/4; Corrosion 3.2/1B	
	Warning: 2.6/4	

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

4 First aid measures

General information

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**

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

(Contd. on page 3)

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 2)

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** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Protective equipment:** No special measures required.**6 Accidental release measures****Person-related safety precautions:**

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Prevent from spreading (e.g. by damming-in or oil barriers).

Dilute with plenty of water.

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.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

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:** No special measures required.**Storage****Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Protect from frost.

Store receptacle in a well ventilated area.

Keep receptacle tightly sealed.

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:****141-43-5 2-aminoethanol**WEL Short-term value: 15 mg/m³, 6 ppmLong-term value: 7.6 mg/m³, 3 ppm**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.

(Contd. on page 4)

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 3)

Respiratory protection: Not required.**Protection of hands:**

Protective gloves.

Synthetic rubber 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

Butyl rubber, BR

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. 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.

Body protection: Apron

9 Physical and chemical properties:

General Information

Form:	Fluid
Colour:	Blue
Odour:	Characteristic

Change in condition**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** 100°C**Flash point:** Not applicable**Ignition temperature:** 305°C**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Vapour pressure at 20°C:** 23 hPa**Density at 20°C:** 1.072 g/cm³**Solubility in / Miscibility with****Water:** Fully miscible**pH-value at 20°C:** 7.2**Solvent content:****Organic solvents:** 15.4 %

(Contd. on page 5)

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 4)

Water: 64.0 %**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Dangerous reactions** No dangerous reactions known**Dangerous decomposition products:** No dangerous decomposition products known**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:**

Oral LD50 3813 mg/kg (rat)

Dermal LD50 > 4090 mg/kg (rabbit)

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral LD50 240 mg/kg (rat)

Dermal LD50 1560 mg/kg (rat)

141-43-5 2-aminoethanol

Oral LD50 2050 mg/kg (rat)

Dermal 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.

12 Ecological information:**Ecotoxicological effects:****Aquatic toxicity:**

Oral LC50 - 96 hrs 0.572 mg/l (bluegill sunfish)

0.145 mg/l (rainbow trout)

Remark: Very toxic for fish**General notes:**

Generally not hazardous for water.

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

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 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: **Fi-CLOR EXTRA STRONG ALGICIDE**

(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: 8 (C3) Corrosive substances.
Danger code (Kemler): 80
UN-Number: 3265
Packaging group: III
Description of goods: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Maritime transport IMDG:

IMDG Class: 8
UN Number: 3265
Packaging group: III
EMS Number: F-A,S-B
Marine pollutant: No
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8
UN/ID Number: 3265
Packaging group: III
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
UN "Model Regulation": UN3265; CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.; III
Environmental hazards: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

15 Regulations**Labelling according to EU guidelines:**

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH)

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:

C Corrosive
 N Dangerous for the environment

Hazard-determining components of labelling:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Risk phrases:

21/22 Harmful in contact with skin and if swallowed.

(Contd. on page 7)

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 6)

- 34 Causes burns.
50 Very toxic to aquatic organisms.

Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
13 Keep away from food, drink and animal feedingstuffs.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
29 Do not empty into drains.
37/39 Wear suitable 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.

National regulations**Technical instructions (air):**

Class	Share in %
Eau	64.0
III	5.6
NK	15.4

Waterhazard class: Generally not 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

- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
21/22 Harmful in contact with skin and if swallowed.
34 Causes burns.
50 Very toxic to aquatic organisms.

Contact:

ARCH CHEMICALS Ltd
Wheldon Road - Castleford - West Yorkshire WF10 2JT - ENGLAND
Telephone: + 44 (0) 1977 714 100
Fax: + 44 (0) 1977 712 456

ARCH MSDS Control Group
Arch Chemicals, Inc.
501 Merrit 7 - PO Box 5204
Norwalk, CT 06856-5204
USA

Tel : +1 203 229 3449

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

(Contd. on page 8)

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

Printing date 27.05.2009

Rev. Index : 10

Revision: 27.05.2009

Trade name: Fi-CLOR EXTRA STRONG ALGICIDE

(Contd. of page 7)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

