

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

Printing date 15.01.2018

Rev. Index : 21

Revision: 15.01.2018

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

### **1.1 Product identifier**

**Trade name: Fi-CLOR™ SPA CARTRIDGE CLEANER**

**Article number:** 10603 FiClor

### **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** PC0 Other

**Application of the substance / the mixture** Delimiting 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:**

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}

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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



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

### 2.2 Label elements

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

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

#### Hazard pictograms



GHS05 GHS07

Signal word Danger

#### Hazard-determining components of labelling:

hydrogen chloride

phosphoric acid

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### 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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

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

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P405 Store locked up.  
P501 Dispose of contents/container to special treatment scheme according to official regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 7647-01-0 EINECS: 231-595-7 Reg.nr.: 01-2119484862-27-XXXX	hydrogen chloride ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	10-<25%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24-XXXX	phosphoric acid ⚠ Skin Corr. 1B, H314	10-<25%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-<10%
CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23-XXXX	Methyl glycol substance with a Community workplace exposure limit	0.1-<2.5%

**Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information** Immediately remove any clothing soiled by the product.**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.

Immediately rinse with water.

**After eye contact**

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

**After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**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

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Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture**

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

**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.

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.

Dilute with plenty of water.

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

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

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

Use neutralising agent.

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.

Prevent formation of aerosols.

**Handling**



**DO NOT MIX WITH OTHER PRODUCTS**

**Information about fire - and explosion protection:** Keep respiratory protective device available.

**7.2 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 oxidising agents.

**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.

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**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 7647-01-0 hydrogen chloride**

WEL	Short-term value: 8 mg/m <sup>3</sup> , 5 ppm Long-term value: 2 mg/m <sup>3</sup> , 1 ppm (gas and aerosol mists)
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**CAS: 7664-38-2 phosphoric acid**

WEL	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
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**CAS: 111-76-2 2-butoxyethanol**

WEL	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 123 mg/m <sup>3</sup> , 25 ppm Sk, BMGV
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**CAS: 57-55-6 Methyl glycol**

WEL	Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm *total vapour and particulates **particulates
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**Ingredients with biological limit values:****CAS: 111-76-2 2-butoxyethanol**

BMGV	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
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**Additional information:** The lists valid during the making were used as basis.

**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:**

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.

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

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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.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Violet
Odour:	Chlorine-like
Odour threshold:	Not determined.

pH-value at 20 °C: <0

**Change in condition**

Melting point/freezing point:	undetermined
Initial boiling point and boiling range:	85 °C

Flash point: Not applicable

Flammability (solid, gaseous) Not applicable.

**Ignition temperature:**

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure at 20 °C: 20 hPa

Density at 20 °C:	1.172 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

**Solubility in / Miscibility with**

Water: Fully miscible

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

**Viscosity:  
dynamic:**

Not determined.

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<b>kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	5.7 %
<b>Solids content:</b>	60.1 %
<b>9.2 Other information</b>	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** No dangerous reactions known

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

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

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

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

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

**CAS: 111-76-2 2-butoxyethanol**

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

#### Primary irritant effect:

##### Skin corrosion/irritation

Causes severe skin burns and eye damage.

##### Serious eye damage/irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

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

##### CMR effects (carcinogenicity, 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.

**STOT-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

Anorganic product, is not eliminable from water by means of biological cleaning processes.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

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**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

**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 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.

**SECTION 14: Transport information****14.1 UN-Number**

ADR, IMDG, IATA

UN1760

**14.2 UN proper shipping name**

ADR

1760 CORROSIVE LIQUID, N.O.S.  
(HYDROCHLORIC ACID, PHOSPHORIC ACID,  
SOLUTION)

IMDG, IATA

CORROSIVE LIQUID, N.O.S.  
(HYDROCHLORIC ACID, PHOSPHORIC ACID,  
SOLUTION)

**14.3 Transport hazard class(es)**

ADR



**Class  
Label**

8 (C9) Corrosive substances.

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**IMDG, IATA**

<b>Class</b>	8 Corrosive substances.
<b>Label</b>	8
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
<b>Danger code (Kemler):</b>	80
<b>EMS Number:</b>	F-A,S-B
<b>Segregation groups</b>	Acids
<b>Stowage Category</b>	B
<b>Stowage Code</b>	SW2 Clear of living quarters.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

**Transport/Additional information:**

<b>ADR</b>	
<b>Excepted quantities (EQ):</b>	E2
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	E

<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, PHOSPHORIC ACID, SOLUTION), 8, II

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.  
**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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

Class	Share in %
NK	5.7

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly 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.

**Relevant phrases**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

**Abbreviations 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)  
ICAO: International Civil Aviation Organisation  
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  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3