

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

Printing date 27.05.2009

Rev. Index : 15

Revision: 27.05.2009

*** 1 Identification of substance:****Trade name: Fi-CLOR TILE AND LINER CLEANER****Article number:** 10610 Fi-Clor 1**Application of the substance / the preparation**

Deliming agent

Surface cleaning

Manufacturer/Supplier:

ARCH WATER PRODUCTS FRANCE

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ARCH CHEMICALS Ltd

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

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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

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 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

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**

3.1/4 - Harmful if swallowed.

3.1/4 - Harmful in contact with skin.

3.1/4 - Harmful if inhaled.

Prevention:

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

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

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Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

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.

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: 111-76-2	2-butoxyethanol	10-25%
EINECS: 203-905-0	Xn, Xi; R 20/21/22-36/38	
	Danger: Skull and crossbones 3.1.O/3, 3.1.D/3, 3.1.I/4; Corrosion 3.2/1C	
	Warning: 2.6/4	
CAS: 7664-38-2	phosphoric acid	10-25%
EINECS: 231-633-2	C; R 34	
	Danger: Corrosion 3.2/1B	
CAS: 7647-01-0	hydrogen chloride	2.5-10%
EINECS: 231-595-7	C, Xi; R 34-37	
	Danger: Corrosion 3.2/1B	
	Warning: Exclamation mark 3.8/3	
CAS: 68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivs.	0.1-2.5%
	C, Xn; R 22-35	
	Danger: Skull and crossbones 3.1.O/3; Corrosion 3.2/1A	
CAS: 34590-94-8	(2-methoxymethylethoxy)propanol	0.1-2.5%
EINECS: 252-104-2	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

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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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**

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 Water spray**Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Protective equipment: Mount respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.**Measures for environmental protection:**

Keep contaminated washing water and dispose of appropriately.

Dilute with plenty of water.

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

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:** Ensure good ventilation/exhaustion at the workplace.**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:** Store away from oxidizing agents.**Further information about storage conditions:**

Protect from frost.

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:****111-76-2 2-butoxyethanol**OES Long-term value: 123 mg/m³, 25 ppm

Sk, Bmgv

7664-38-2 phosphoric acidOES Short-term value: 2 mg/m³

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7647-01-0 hydrogen chloride

OES Short-term value: 8 mg/m³, 5 ppm
 Long-term value: 2 mg/m³, 1 ppm
 gas and aerosol mists; ILV

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.

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

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

Neoprene 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.

Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

Form:	Pasty
Colour:	Whitish
Odour:	Sweetish

Change in condition**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** 171°C**Flash point:** Not applicable**Ignition temperature:** 240°C

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Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	10.6 Vol %
Vapour pressure at 20°C:	23 hPa
Density at 20°C:	1.080 g/cm ³
Solubility in / Miscibility with	
Water:	Fully miscible
pH-value at 20°C:	< 0
Solvent content:	
Organic solvents:	22.3 %
Water:	45.5 %
Solids content:	32.2 %

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:

Poisonous gases/vapours

Hydrogen chloride (HCl)

Phosphoric acids

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

111-76-2 2-butoxyethanol

Oral LD50 1480 mg/kg (rat)

Dermal LD50 400 mg/kg (rab)

7631-86-9 silicon dioxide, chemically prepared

Oral LD50 10000 mg/kg (rat)

34590-94-8 (2-methoxymethylethoxy)propanol

Oral LD50 5135 mg/kg (rat)

Dermal LD50 9500 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

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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:

Information about elimination (persistence and degradability):

Other information:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N°648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ecotoxicological effects:

Aquatic toxicity:

111-76-2 2-butoxyethanol

LC50 - 96 hrs 1490 mg/l (leporinis macrochirus)

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 unneutralized.

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.

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.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 8 Corrosive substances.

Danger code (Kemler): 80

UN-Number: 1760

Hazard label 8

Description of goods: 1760 Corrosive liquid, n.o.s., hydrochloric acid

Maritime transport IMDG:



IMDG Class: 8

UN Number: 1760

Label 8

Packaging group: II

EMS Number: F-A,S-B

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Marine pollutant: No**Proper shipping name:** CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** 8**UN/ID Number:** 1760**Label** 8**Packaging group:** II**Proper shipping name:** CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)**UN "Model Regulation":** UN1760, CORROSIVE LIQUID, N.O.S., 8

15 Regulations

Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

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

Code letter and hazard designation of product:

C Corrosive

Hazard-determining components of labelling:

2-butoxyethanol

Risk phrases:

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

34 Causes burns.

Safety phrases:

1/2 Keep locked up and out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling of certain preparations:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

National regulations**Technical instructions (air):****Class Share in %**

II 42.9

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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.
- 22 Harmful if swallowed.
- 34 Causes burns.
- 35 Causes severe burns.
- 36/38 Irritating to eyes and skin.
- 37 Irritating to respiratory system.

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.**

