

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Cartridge Cleaner
REACH registered number(s): MIXTURE

1.2 Relevant Identified uses of the substance or mixture and uses advised against
 Uses: Concentrated cleaning agent for swimming pool, spa and hot tub filters.

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
 Unit 2, The Park
 Stoke Orchard
 Bishops Cleeve
 Gloucestershire
 GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
 E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	
Skin Corrosion	Category 1A	H314

For the full text of the H statements mentioned in this section see Section 16.

Most important adverse effects

Human Health:	See section 11 for toxicological information.
Physical & Chemical Hazards:	See section 9 for toxicological information.
Potential environmental effects:	See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard statements: H314 Causes severe skin burns and eye damage

Signal word: Danger

Hazard pictograms: GHS05 Corrosion



Precautionary statements:

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

P280 Wear protective gloves and eye/face protection

P301+330+331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3 Other Hazards

PBT: This product is not identified as a PBT/vPvB substance.

Trade Name: Cartridge Cleaner

3. Composition/information on ingredients

3.1 Mixtures

EINECS	CAS	PBT/WEL	CLP Classification	Percent
ETIDRONIC ACID				
-	2809-21-4	-	Met. Corr. 1: H290; Eye Dam. 1: H318; Acute Tox. 4: H302	10 - 30%
POTASSIUM HYDROXIDE				
215-181-3	1310-58-3	-	Acute Tox. 4: H302; Skin Corr. 1A: H314	10 - 30%
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE				
200-573-9	64-02-8	-	Acute Tox. 4: H302; Eye Dam. 1: H318	10 - 30%

Contains: Mixture of listed substances with non hazardous additions.

4. First Aid measures

4.1 Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning
Eye contact:	Check for and remove any contact lenses. Open eyes wide apart. Rinse opened eye plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact:	Corneal burns may occur. May cause permanent damage.
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

4.3 Indication of immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises

5. Fire fighting measures

5.1 Extinguishing media:

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3 Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. Accidental release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from the danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see Section 8. Turn leaking containers leak side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding

6.3 Methods and materials for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage**7.1 Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities.

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3 Specific end uses

Specific use(s) No data available.

8. Exposure control/personal protection**8.1 Control parameters****Hazardous ingredients:**

POTASSIUM HYDROXIDE

Workplace exposure limits:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2 Exposure controls

Engineering measures Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection Self-contained breathing apparatus must be available in case of emergency.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection Wear safety glasses approved to standard EN 166. Ensure eye station is to hand

Skin protection Impermeable protective clothing.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Liquid
Colour:	Straw
Odour:	Perceptible odour
pH	>10
Density	1.170
Water solubility:	Miscible

9.2 Other Information No further information available

10. Stability and reactivity**10.1 Reactivity**

Reactivity Stable under recommended transport or storage conditions.

10.2 Chemical stability

Chemical stability Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

11. Toxicological Information**11.1 Information on toxicological effects****Toxicity Values**

Route	Species	Test	Value	Units
Oral	Rat	LD50	333	mg/kg

Hazardous Ingredients:

ETIDRONIC ACID

Route	Species	Test	Value	Units
Dermal	RBT	LD50	>5000	mg/kg

POTASSIUM HYDROXIDE

Route	Species	Test	Value	Units
Oral	Rat	LD50	1878	mg/kg
ORL	Rat	LD50	273	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: . Corneal burns may occur. May cause permanent damage

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Trade Name: Cartridge Cleaner

11. Toxicological Information

11.1 Symptoms / routes of exposure

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure

12. Ecological Information

12.1 Toxicity

Ecotoxicity: No data available

12.2 Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3 Bioaccumulative potential

Bioaccumulative potential: No Bioaccumulation potential.

12.4 Mobility in soil

Mobility: Readily absorbed into soil.

12.5 PBT and PvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: Negligible ecotoxicity.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

14.1 UN Number

UN3266

14.2 Shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(ETIDRONIC ACID; POTASSIUM HYDROXIDE)

14.3 Transport hazard class(es)

Transport Class: 8

14.4 Packaging Group

III

14.5 Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user

Special precautions: Warning: Corrosive substances.

Tunnel code: E

Transport category: 2

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not applicable

Trade Name: Cartridge Cleaner

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

Not applicable

15.2 Chemical Safety Assessment

16. Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Full text of H-statements referred to under sections 2 and 3

H290 May be corrosive to metals

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage.

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section

Rev 5