

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

1.1 Product Identifier Chemical: Swimfresh Spring Cleaner
 Weight 5 Litres
 Code SFSC05/2

1.2 Relevant Identified uses of the substance or mixture and uses advised against
 Uses: Liquid Cleaner and General Scale removal in Swimming Pools

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	Target Organs	Hazard Statements
Skin Irrit	2		H315
Eye Irrit	2		H319

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant	R37



For the full text of the R phrases 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 physicochemical information
 Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:  

Signal word: Danger

Hazard statements: H315 Causes skin irritation
 H355 May cause respiratory respiration

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Trade Name: Swimfresh Spring Cleaner

2. Hazard Identification

Precautionary statements:

Reponse: P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P308+310: If exposed or concerned: Immediately call a POISON CENTRE or doctor/physician

Hazardous components which must be listed on the label

Hydrochloric acid

2.3 Other Hazards

No other information is available

3. Composition/information on ingredients

3.1 Mixture

Chemical Name	CAS No:	EC No:	Index No	%	H & R Phrases
hydrochloric acid	7647-01-0	231-595-7	017-002-01-X	<=20	H315 / H319 - R37

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No further information available

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

5.2 Specific Hazards Fire may cause evolution of Hydrogen chloride gas. Gives off hydrogen by reaction with metals.

5.3 Advice for firefighters In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

(continued on Page 3)

5. Fire fighting measures

Further Information: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise -with a risk of bursting.

Supress (knock down) gases/vapours/mist s with a water spray jet.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration

If the product contaminates rivers and lakes or drains - inform respective authorities.

If material reaches soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Methods and materials Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)

Keep in suitable closed containers for disposal.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residue should be treated as for small spillages. Do not allow undiluted material to enter drains, sewers or watercourses

Further Information: Treat recovered material as described in the section 'Disposal considerations'

6.4 Reference to other sections For personal protection see Section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Handle open container with care. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work dat. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Keep in an area equipped with acid resistant flooring. Suitable materials for containers: glass Polypropylene polyethylene. Unsuitable materials: Metals.

7. Handling and storage**7.2 Conditions for safe storage, including any incompatibilities.**

Advice on protection against fire and explosion: The product is not flammable. Gives off hydrogen by reaction with metals. Risk of explosion.

Further information: Keep container tightly closed. Keep in a well-ventilated place. Store in a cool place.

Advice on common storage: Corrosive in contact with metals. Materials to avoid sodium hypochlorite, alkalis.

Storage Temperature: Store at room temperature (15 to 25°C recommended).

7.3 Specific end uses No information available**8. Exposure control/personal protection****8.1 Control parameters**

Hydrochloric Acid				
Basis:	List	Time	Value	Measure
UK	EH40 WEL	Short Term Exposure	8	mg ³
			5	ppm
UK	EH40 WEL	Long Term Exposure L	2	mg ³
			1	ppm

8.2 Exposure controls**Engineering measures**

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection Use respirator with appropriate filter if vapours or aerosol are released
Required, if exposure limit is exceeded

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

Material	Thickness	Breakthrough time
butyl rubber	0.5mm	>= 8 h
Nitrile rubber	0.35 mm	>= 8 h
Polyvinylchloride	0.5mm	>= 8 h
Flourinated rubber	0.4mm	>= 8 h
Nitrile rubber	0.35 mm	>= 8 h
Polychloropene	0.5mm	>= 8 h

Eye protection Wear tightly fitting safety goggles approved to standard EN 166.

Skin and body protection Acid resistant protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems
Avoid subsoil penetration
If the product contaminates rivers and lakes or drains inform respective authorities.
If the product reaches soil inform respective authorities.

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

Form:	Liquid
Colour:	Colourless
Odour:	Pungent, Characteristic
pH @ 20°C:	Less than 1
Solidification point	Currently we do not have any information from our supplier about this.
Boiling point:	101 - 104°C
Flash point:	not applicable
Flammability (solid, gas)	does not ignite
Upper explosion limit:	not applicable
Lower explosion limit:	not applicable
Density @ 20°C:	1.04 - 1.12 at 20°C
Water solubility:	Completely soluble
Explosive properties:	Not explosive

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity	This product is a very reactive substance that can react with many inorganic and organic compounds.
10.2 Chemical stability	No decomposition if stored and applied as directed
10.3 Possibility of hazardous reactions	Hydrogen, by reaction with metals, Explosive properties; alkalines
10.4 Conditions to avoid	Attacks most common metals liberating hydrogen, which can form explosive mixtures with air. Can react violently with oxidising agents liberating chlorine.
10.5 Incompatible materials	Concentrated sulphuric acid: Alkalis : Strong oxidising agents : Ammonia : Amines
10.6 Hazardous decomposition products	Hydrogen chloride gas

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

Hydrochloric Acid				
Route	Species	Test	Value	Units
Dermal	Rabbit	LD50	>5,040	mg/kg

Primary Irritant effect

On the skin: Corrosive effect
On the eye: Risk of serious damage to eyes

Carcinogenic There is no evidence that this substance has any carcinogenic properties.

Mutagenic There is no evidence that this substance is mutagenic

Sensitization: Product is not sensitizing

Additional toxicological information:

If ingested Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach
All numerical values for acute toxicity are calculated on the pure substances.
Handle in accordance with good industrial hygiene and safety practise.

12. Ecological Information**12.1 Toxicity**

Hydrochloric Acid				
Species	Time	Test	Value	Units
Leuciscus idus	96h	LC50	25	mg/l
daphnia	48h	EC50	6	mg/l

Does not cause biological oxygen deficit.

12.2 Persistence and degradability No data available**12.3 Bioaccumulative potential** Bioaccumulation is not expected**12.4 Mobility in soil** Volatile liquid, soluble in water, predicted to have high mobility in soil.**12.5 Results of PBT and PvB assessment** No data available

12.6 Other adverse effects Harmful effects to aquatic organisms due to pH shift
 Neutralization is normally necessary before waste water is discharged into water treatment plants.
 Do not flush into surface water or sanitary water system

13. Disposal Considerations**13.1 Waste treatment methods**

Disposal should be in accordance with local, state or national legislation

Do not reuse empty containers without commercial cleaning or reconditioning

Do not discharge into drains or the environment, dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information**14.1 UN Number** 1789**14.2 UN proper shipping name** Hydrochloric Acid**14.3 Transport hazard class(es)**

ADR Class 8
 (Label, classification code; Hazard ID; Tunnel 8;5b;80; (E)

RID Class 8
 (Label, Classification Code; Hazard ID;) 8;5b;80;

IMDG Class 8
 (Labels; EmS) 8, F-A,S-B

14.4 Packaging Group II**14.5 Environmental hazards**

Labelling according to 5.2.1.8 ADR: no
 Labelling according to 5.2.1.8 RID: no
 Labelling according to 5.2.1.8 IMDG: no
 Classification as environmentally hazardous according to 2.9.3 IMDG: no

14.6 Special precautions for user See Section 7**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** n/a

Trade Name: Swimfresh Spring Cleaner

15. Regulatory information

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

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

UK ISR: hydrochloric acid. Annual reporting level threshold; 10,000kg

15.2 Chemical Safety Assessment

No further information

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R37 Irritating to respiratory system

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

H315 Causes skin irritation

H355 May cause respiratory respiration

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.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemicals Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	18/01/07	Linda Brueford	Created
2	08/07/08	Linda Brueford	Sections 3 : 9 : 12: 15
3	11/03/11	Linda Brueford	GHS label elements added, updated to European requirements and other
4	08/01/14	Linda Brueford	Minor editorial amendments