
SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: **Hot Tub Flush**
Datasheet Number: Hot Tub Flush 3. 0. 0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Complete Pool Controls Ltd
Address of Supplier: Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire GL52 7RS
UK
Telephone: +44 (0) 8712 229081
Fax: +44 (0) 8712 229083
Responsible Person: Sales Dpt
Email: sales@cpc-chemicals.co.uk

1.4 Emergency telephone number

+44 (0) 8712 229081 (09:00 - 17:00)
+44 (0) 1242 300271

2 Hazards identification**2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Skin Corr. 1B, H314
- Classification (67/548/EEC, 1999/45/EC)
- C: R34
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Signal Word: Danger
- Symbols: GHS05

Hazard phrases

- Causes severe skin burns and eye damage.

Precautionary Phrases

- Store locked up.
- Keep out of reach of children.
- Do not get in eyes, on skin, or on clothing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2 Hazards identification (....)

- Get medical advice/attention if you feel unwell.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- None

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
sulphuric acid ... %	2.5-10%	7664-93-9	231-639-5	H314, R35	GHS05, C
phosphoric acid ... %, orthophosphoric acid ... %	2.5-10%	7664-38-2	231-633-2	H314, R34	GHS05, C

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Burns should be covered with a clean, dry non-fluffy material
- Get immediate medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Corrosive effects
- Causes blistering of the skin
- Can cause damage to the eyes and skin
- Can cause damage to the mucous membranes

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use carbon dioxide or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- See Section 10.6
- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include sulphur oxides

5.3 Advice for firefighters

- Wear protective clothing as per section 8
- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes
- Eyewash bottles should be available

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

- See Section 7 & 8
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7 Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Eyewash bottles should be available
- Never add water to this product
- Always add product to water

7.2 Conditions for safe storage, including any incompatibilities

- Keep in an area equipped with acid resistant flooring.
- Keep only in original container.
- Keep container tightly closed.
- Keep in a cool, dry, well ventilated place
- Protect from heat
- Keep away from foodstuff.

7.3 Specific end use(s)

- No information available.
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8 Exposure controls/personal protection

8.1 Control parameters

sulphuric acid ... %

- WEL 0.05 mg/m³

phosphoric acid ... %, orthophosphoric acid ... %

- WEL (short term) 2 mg/m³
- WEL (long term) 1 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
 - Wear safety glasses approved to standard EN 166.
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8 Exposure controls/personal protection (....)

- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear rubber gloves
- Wear suitable clothing providing resistance to acids



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: None
- Appearance: light, brown, Liquid
- pH 1
- Boiling point 110 °C
- Vapour pressure - not known
- Vapour density - not known
- Melting point 5 °C
- Miscible
- Specific gravity 1.02 g/cm³
- Flash point - not applicable
- Non-explosive
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- No information available

10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- No decomposition if stored normally.

10.3 Possibility of hazardous reactions

- Exothermic reaction with water

10.4 Conditions to avoid

- No information available

10.5 Incompatible materials

- Incompatible with alkalis (strong bases)
- Incompatible with strong oxidizing substances
- Do not mix with any other products

10.6 Hazardous Decomposition Products

- Decomposition products may include phosphorous oxides
- Decomposition products may include sulphur oxides

11 Toxicological information

11.1 Information on toxicological effects

Inhalation

- May cause respiratory tract irritation.
- May cause coughing
- Causes dry throat

Contact with skin

- Causes blistering of the skin
- Causes burning sensation
- Causes redness and swelling

Contact with eyes

- Causes pain
- Causes redness
- Causes burning sensation

Ingestion

- Can cause soreness and redness of the mouth and throat.
- May cause burns to mouth and throat
- May cause perforation of the oesophagus and stomach

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available
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12 Ecological information

12.1 Toxicity

- No information available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- Bioaccumulation is not expected

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
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13 Disposal considerations

13.1 Waste treatment methods

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



Corrosive

14.1 UN Number

3264

14.2 UN Proper Shipping Name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains sulphuric acid)

14.3 Transport hazard class(es)

14.4 Packing group

II

14.5 Environmental hazards

- On available data, substance is not harmful to the environment

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

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains sulphuric acid)		
ADR UN No.:	3264		
ADR Hazard Class:	8	ADR Packing Group:	II
Tunnel Code:	E		

Sea (IMDG)

Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains sulphuric acid)		
IMDG UN No.:	3264		
IMDG Hazard Class.:	8	IMDG Pack Group.:	II

Air (ICAO/IATA)

Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains sulphuric acid)		
ICAO Un No.:	3264		
ICAO Hazard Class.:	8	ICAO Packing Group.:	II

15 Regulatory information

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

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

15.2 Chemical Safety Assessment

No information available

16 Other information

Revisions

1. 18/10/2010 Created by Linda Brueford.
2. 24/10/2011 by Linda Brueford. Updated to European requirements
3. September 2013 by ChemRegs. Classification changed in Section 2.

Text of R and S phrase codes used in this safety data sheet:- H314: Causes severe skin burns and eye damage.; R34: Causes burns; R35: Causes severe burns.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.