

## Hot Tub Flush

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

#### 1.1 Product Identifier

Trade Name: Hot Tub Flush

#### 1.2 Relevant Identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Pipe-work cleaner for hot tubs and spas.

#### 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](mailto: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 of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Statements
Eye Dam 1	H318

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

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 statements: H318 Causes serious eye damage.

Signal word: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements:

P102:	Keep out of reach of children.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352:	IF ON SKIN: Wash with plenty of water/shower.
P305+351+338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+313:	If skin irritation or rash occurs: Get medical advice/attention.
P337+313:	If eye irritation persists: Get medical advice/attention.
P501:	Dispose of contents/container to local/regional/national/international regulations.

#### 2.3 Other Hazards

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

Trade Name: Hot Tub Flush

### 3. Composition/information on ingredients

#### 3.1 Mixture

SULPHURIC ACID			
EINECS	CAS	CLP Classification	Percent
231-639-5	7664-93-9	Skin Corr. 1A: H314	1-10%
ISODECANOL, ETHOXYLATED			
612-519-5	61827-42-7	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%
AMIDES, TALL-OIL FATTY, N,N-DI-ME			
269-665-4	68308-74-7	Skin Sens. 1B: H317; Aquatic Acute 1: H400; Aquatic Chronic 3:	1-10%
ETHOXYLATED C9 - C11 ALCOHOLS			
500-446-0	68439-46-3	Acute Tox. 4: H302; Eye Dam. 1: H318	<1%

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 immediately with plenty of soap and water.

Eye contact: Check for and remove any contact lenses. Open eyes wide apart. Rinse opened eye with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

#### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat.

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

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

### 5. Fire fighting measures

#### 5.1 Extinguishing media:

Suitable 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

Specific Hazards during fire: 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: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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: 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**

Reference to other sections Refer to section 8 of the MSDS

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

Handling requirements: Avoid direct contact with the substance. Ensure sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

**7.2 Conditions for safe storage, including any incompatibilities.**

Storage conditions: Store in 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:

**SULPHURIC ACID...100%**

Workplace exposure limits:

Respirable Dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.05mg/m <sup>3</sup>	-	-	-

**DNEL/PNEC Values**

DNEL / PNEC No data available.

**8.2 Exposure controls**

Engineering measures Ensure there is sufficient ventilation of the area.

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

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

Eye protection Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin and body protection Protective clothing.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

State: Liquid

Colour: Creamy brown

Odour: Characteristic odour

Relative density: 1.021

### 9.2 Other Information

Other Information : No data 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 acids. Strong bases. Strong oxidising agents

### 10.6 Hazardous decomposition products

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

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Toxicity values:

SULPHURIC ACID...100%			
ORL	RAT	LD50	2140 mg/kg
ETHOXYLATED C9 - C11 ALCOHOLS			
DERMAL	RAT	LD50	>2000 mg/kg

2-(2-BUTOXYETHOXY)ETHANOL

ORL	MUS	LD50	6050 mg/kg
ORL	RAT	LD50	4500 mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

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

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

**12. Ecological Information****12.1 Toxicity**

Ecotoxicity values:

Species	Test	Value	Units
Daphnia	48H EC50	>5.3	mg/l

Hazardous ingredients:

ETHOXYLATED C9 - C11 ALCOHOLS

Species	Test	Value	Units
Daphnia	48H EC50	>5.3	mg/l

**12.2 Persistence and degradability**

Persistence and degradability: No data available

**12.3 Bioaccumulative potential**

Bioaccumulative potential: No bioaccumulation potential

**12.4 Mobility in soil**

Mobility: Readily absorbed into soil.

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

Other adverse effects No data available

**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**

Transport class: This product does not require a classification for transport.

**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**

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

Phrases used in s.2 and 3:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

**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.