

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: SPA AND HOT TUB FLUSH

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

Use of substance / mixture: Spa and hot tub system/pipework cleaner

1.3. Details of the supplier of the safety data sheet

Company name: Pro Swim Supplied by: Water Treatment Products Ltd
Unit 1 Gilchrist Thomas Industrial Estate
Blaenavon
Pontypool
Torfaen
NP4 9RL
Tel: 01495 792790
Fax: 01495 792090
Email: sales@watertreatmentproducts.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.
P264: Wash with soap and water thoroughly after handling.
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

2.3. Other hazards

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

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Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SULPHURIC ACID - REACH registered number(s): 01-2119458838-20-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-639-5	7664-93-9	-	Skin Corr. 1A: H314	1-10%

ORTHOPHOSPHORIC ACID - REACH registered number(s): 01-2119485924-24-XXXX

231-633-2	7664-38-2	-	Skin Corr. 1B: H314	1-10%
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FATTY ALCOHOL POLYGLYCOLETHER

-	61827-42-7	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%
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2-(2-BUTOXYETHOXY)ETHANOL

203-961-6	112-34-5	-	Eye Irrit. 2: H319	1-10%
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Contains: Aqueous surfactant/wetting agents.

Section 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: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

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

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

Skin contact: Material will cause severe irritation and may cause chemical burns.

Eye contact: Risk of serious damage to eyes.

Ingestion: Irritation and / or burns can occur to the gastrointestinal tract, including the stomach and intestines characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and / or tissue ulceration.

Inhalation: Liquid product, Inhalation unlikely. Inhalation of mist or vapour can cause nausea, headache and irritation of nose, throat and lungs.

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

4.3. Indication of any immediate medical attention and special treatment needed

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

Section 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: 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.

[cont...]

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Section 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. Ensure adequate ventilation
Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Absorb spilled liquid with sand or earth

6.3. Methods and material 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 SDS.

Section 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.
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.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/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	1 mg/m ³	-	-	-

ORTHOPHOSPHORIC ACID...100%

UK	1 mg/m ³	2 mg/m ³	-	-
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2-(2-BUTOXYETHOXY)ETHANOL

UK	67.5 mg/m ³	101.2 mg/m ³	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: PVC gloves. Nitrile gloves. Glove material must be impermeable to the product.
Breakthrough time of the glove material < 1 hour.

Eye protection: Tightly fitting safety goggles.

Skin protection: Protective clothing.

[cont...]

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Brown

Odour: Slight odour

Relative density: 1.064

pH: <2

9.2. Other information

Other information: No data available.

Section 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.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong bases. Do not mix with other chemical formulations in their concentrated form.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

SULPHURIC ACID...100%

ORL	RAT	LD50	2140	mg/kg
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ORTHOPHOSPHORIC ACID...100%

ORL	RAT	LD50	1530	mg/kg
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2-(2-BUTOXYETHOXY)ETHANOL

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

Relevant hazards for product:

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

Symptoms / routes of exposure

Skin contact: Material will cause severe irritation and may cause chemical burns.

[cont...]

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Eye contact: Risk of serious damage to eyes.

Ingestion: Irritation and / or burns can occur to the gastrointestinal tract, including the stomach and intestines characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and / or tissue ulceration.

Inhalation: Liquid product, Inhalation unlikely. Inhalation of mist or vapour can cause nausea, headache and irritation of nose, throat and lungs.

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

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

SULPHURIC ACID...100%

Daphnia magna	48H EC50	29	mg/l
Fish	96H LC50	42	mg/l

ORTHOPHOSPHORIC ACID...100%

Fish	96H LC50	>1000	mg/l
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12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

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: Do not allow concentrated product to enter rivers or water courses.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed off in household waste Disposal to a special waste disposal plant, in accordance with local council regulations. Do not allow entry to drains or waterways. 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.

Section 14: Transport information

14.1. UN number

UN number: UN3264

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(SULPHURIC ACID...100%)

[cont...]

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14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.