

SAFETY DATA SHEET
HOT TUB SYSTEM FLUSH

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Compilation date: 12/07/2019

Revision date: 19.11.20

Revision No: 2

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

1.1. Product identifier

Product name: PURE-SPA HOT TUB SYSTEM FLUSH

Product code: HC1142

Synonyms: HC1142

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

Use of substance / mixture: Water based hard surface cleaner.

1.3. Details of the supplier of the safety data sheet

Company name: LIQUID SCIENCE SOLUTIONS LIMITED

Bentley Wood Way

Network 65 Business Park

Hapton, Burnley

Lancashire

BB11 5ST

Tel: 01282 831251

Fax: 01282 450456

Email: info@liquidscience.co.uk

1.4. Emergency telephone number

Emergency tel: 0777 342 9963

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements:

Precautionary statements: P102: Keep out of reach of children.

P103: Read label before use.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P313: Get medical advice/attention.

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2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

(2-METHOXY METHYL ETHOXY) PROPANOL - REACH registered number(s): 01-2119450011-60-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
252-104-2	34590-94-8	Substance with a Community workplace exposure limit.	-	1-10%

TRIETHANOLAMINE - REACH registered number(s): 01-2119486482-31-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-049-8	102-71-6	Substance with a Community workplace exposure limit.	-	1-10%

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE - REACH registered number(s): 01-2119970550-39-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
939-350-2	68424-85-1	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	<1%

DIMETHYL C12-C14 ALKYL BETAINES - REACH registered number(s): 01-2119529251-48-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
931-700-2	-	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 3: H412	<1%

Non-classified ingredients:

SODIUM CARBONATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
207-838-8	497-19-8	-	Eye Irrit. 2: H319	<1%

TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE - REACH registered number(s): 01-2119486762-27-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-573-9	64-02-8	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT RE 2: H373; Acute Tox. 4: H332	<1%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

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

[cont...]

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

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

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

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

Immediate / special treatment: Not applicable.

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.

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. 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 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

7.2. Conditions for safe storage, including any incompatibilities

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

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7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

(2-METHOXY METHYL ETHOXY) PROPANOL

Workplace exposure limits:

Respirable dust:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	308mg/m3(50ppm)	-	-	-

TRIETHANOLAMINE

UK	5 mg/m3 (no std.)	-	-	-
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Non-classified ingredients:

TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE

Workplace exposure limits:

Respirable dust:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	2.5mg/m3	2.5mg/m3	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Purple

Odour: Barely perceptible odour

Evaporation rate: Slow

Solubility in water: Highly soluble

Viscosity: Non-viscous

Boiling point/range°C: 100

Melting point/range°C: 0

Flammability limits %: lower: Not applicable.

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Flash point°C: Not applicable.
Autoflammability°C: Not applicable.
Relative density: 1.010
VOC g/l: Not applicable.

upper: Not applicable.
Part.coeff. n-octanol/water: No data available.
Vapour pressure: Not applicable.
pH: 11 - 11.5

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.
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.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

(2-METHOXY METHYL ETHOXY) PROPANOL

ORL	RAT	LD50	6.6	g/kg
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TRIETHANOLAMINE

ORL	RAT	LD50	>2	g/kg
SKN	RBT	LD50	>10	g/kg

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ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

DERMAL	RAT	LD50	1560	mg/kg
ORL	RAT	LD50	795	mg/Kg

DIMETHYL C12-C14 ALKYL BETAINES

ORL	RAT	LD50	>2000	mg/kg
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Non-classified ingredients:

SODIUM CARBONATE

ORL	MUS	LD50	6600	mg/kg
ORL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE

DERMAL	GPG	LD50	5000	mg/kg
ORL	RAT	LD50	3030	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

(2-METHOXY METHYL ETHOXY) PROPANOL

BLUEGILLS	96H LC50	>1000	mg/l
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TRIETHANOLAMINE

FISH	48H EC50	1390	mg/l
FISH	96H LC50	>5000	mg/l

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

DAPHNIA	48H EC50	0.03	mg/l
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RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	1.7	mg/l
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TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE

FISH	96H LC50	>100	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: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Waste code number: 20 01 30

Disposal of packaging: Dispose of as normal industrial waste. Clean with water.

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

Section 14: Transport information

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

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

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Other information

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

All substances in this preparation are registered within EU/EFTA countries under the REACH (EC) 1907/2006 (amended) regulations.

Detergent Regulations EC648/2004, the product contains amongst other ingredients:-

EDTA salts <5%

Cationic surfactants <5%

Amphoteric surfactants <5%

Disinfectants

Perfumes

IMPORTANT NOTE:

Risk phases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product.

See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

Phrases used in s.2 and s.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.

H332: Harmful if inhaled.

H373: May cause damage to organs (lungs) through prolonged or repeated exposure (if mist inhaled).

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

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.