

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

- 1.1 **Product Identifier**
 Product Name : Spa & Hot Tub Flush
 Datasheet Number : SDS015
 Unique Formula Identifier: 2910-G00G-K00U-AFFS
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Product category PC37 Water treatment chemicals
 Application of the substance / the mixture Pipe-work and internal system cleaner for hot tubs.
- 1.3 **Details of the supplier of the safety data sheet**
 Name of Supplier Plastica Ltd
 Address of Supplier Perimeter House, Napier Road
 St Leonards-on-Sea, East Sussex
 TN38 9NY, United Kingdom
 Telephone +44 (0) 1424 857857
 E-mail (competent person) info@plasticapools.net
- 1.4 **Emergency Telephone Number**
 Emergency Phone No 0800 043 0891 (Technical) 24 Hours a day
 0800 043 0892 (Emergency)
 Languages Spoken English

Members of the public seeking specific information on poisons should contact:
 In England and Wales: NHS 111 - dial 111
 In Scotland: NHS 24 - dial 111

SECTION 2 : Hazards Identification

- 2.1 **Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2

H319 Causes serious eye irritation.

- 2.2 **Label elements**
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GB CLP regulation.

Hazard Pictograms GHS07
Signal Word(s) Warning
Hazard Statement(s) H319 Causes serious eye irritation
Precautionary statements P261 Avoid breathing mist/vapours/spray.
 P280 Wear eye protection / face protection.
 P302+P352 IF ON SKIN: Wash with plenty of 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.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.

2.2 cont..

Additional Information

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

2.3 **Other hazards**

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3 : Composition/Information on Ingredients

- 3.1 **Chemical characterisation:** Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components

Substance	CAS No	EC No	EINECS No	%W/W
Sulphuric acid	7664-93-9		231-639-5	2.5-10%
Isodecanol, ethoxylated	61827-42-7	612-519-5		1-2.5%
2-(2-Butoxyethoxy)ethanol	112-34-5		203-961-6	1-2.5%
Non-ionic surfactant	68439-46-3	614-482-0		0.1-1%

Sulphuric acid Skin Corr. 1A, H314
 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 %
 Eye Irrit. 2; H319: C ≥ 5 %

Isodecanol, ethoxylated Eye Dam. 1, H318
 Isodecanol, ethoxylated Acute Tox. 4, H302

2-(2-Butoxyethoxy)ethanol Eye Irrit. 2, H319

Non-ionic surfactant Eye Irrit. 2, H319

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4 : First Aid Measures

4.1 **Description of first aid measures****General Information:**

After inhalation: Immediately remove any clothing soiled by the product.
 Supply fresh air; consult doctor in case of complaints.
 After skin contact: Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

4.1 cont..

After eye contact: Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Information for doctor: Treat symptomatically and supportively.

4.2 **Most important symptoms and effects, both acute and delayed** No further relevant information available.

4.3 **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5 : Firefighting Measures

5.1 **Extinguishing Media** :
Suitable Extinguishing Agents: CO₂, powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media: Water with full jet

5.2 **Special hazards arising from the substance or mixture** : Formation of toxic gases is possible during heating or in case of fire

5.3 **Advice for Firefighters** :
Wear fully protective suit.
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

Additional information Cool endangered receptacles with water spray.

SECTION 6 : Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures** : Ensure adequate ventilation
Wear protective equipment.
Keep unprotected persons away.

6.2 **Environmental Precautions:** Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course in the undiluted form.

6.3 **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.

6.4 **Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7 : Handling and Storage

7.1 **Precautions for Safe Handling** Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

SECTION 7 : Handling and Storage

7.1 cont..

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from oxidising agents.
Store away from metals.
Store away from foodstuffs

Further information about storage conditions:

Protect from frost.
Store in cool, dry conditions in well sealed receptacles.

Storage class:

12

7.3 Specific end use(s)

No further relevant information available.

SECTION 8 : Exposure Controls/Personal Protection

8.1 Control Parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

7664-93-9 Sulphuric acid

WEL

Long-term value: 0.05* mg/m³

*mist: defined as thoracic fraction

112-34-5 2-(2-Butoxyethoxy)ethanol

WEL

Short-term value: 101.2 mg/m³, 15 ppm

Long-term value: 67.5 mg/m³, 10 ppm

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Do not eat or drink while working.
Take note of assigned Workplace Exposure Limits.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

8.2 cont..

Material of gloves :

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection

Tightly sealed goggles.

Body protection:

Impervious protective clothing

Body protection must be chosen depending on product properties, activity and possible exposure

SECTION 9 : Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

General Information

Appearance:

Form:	Fluid
Colour:	Light Brown
Odour:	Mild
Odour threshold:	Not determined.
pH-value at 20 °C:	4-6
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.021 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Fully miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	1.10 %

9.2 Other Information:

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10 : Stability and Reactivity

- | | | |
|------|---|---|
| 10.1 | Reactivity | No further relevant information available. |
| 10.2 | Chemical stability Thermal decomposition / conditions to be avoided: | No decomposition if used and stored according to specifications. |
| 10.3 | Possibility of hazardous reactions: | No dangerous reactions known. |
| 10.4 | Conditions to avoid: | No further relevant information available. |
| 10.5 | Incompatible materials: | Finely powdered metals.
Strong oxidising agents. |
| 10.6 | Hazardous decomposition products: | Phosphorus compounds
Carbon monoxide and carbon dioxide
Sulphur oxides (SO _x) |

SECTION 11 : Toxicological Information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates) Oral LD50 22,727 mg/kg

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12 : Ecological Information

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|------|--------------------------------------|--|
| 12.1 | Toxicity
Aquatic Toxicity: | No further relevant information available. |
| 12.2 | Persistence and degradability | The organic portion of the product is biodegradable. |
| 12.3 | Bioaccumulative potential | Product is not expected to bioaccumulate. |
| 12.4 | Mobility in soil | No further relevant information available. |

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13 : Disposal Considerations**13.1 Waste treatment methods****Recommendation**

Recommended Hierarchy of Controls:

Minimise waste;

Reuse if not contaminated;

Recycle, if possible; or

Safe disposal (if all else fails).

Contact waste processors for recycling information.

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste.

Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Uncleaned packaging:**Recommendation:**

Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating.

Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents.**SECTION 14 : Transport Information****14.1 UN-Number**

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)ADR, ADN, IMDG, IATA
Class Void**14.4 Packing group**

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.**UN "Model Regulation":** Void

SECTION 15 : Regulatory Information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
- 15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16 : Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

Department issuing SDS: Product safety department.

Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2