



Ionic Purification Ltd

Solu-Safe Coolant Disinfectant

Safety Data Sheet

Non-toxic biodegradable sustainable disinfectant

Section 1: Product and company identification

1.1. Product identifier

Technical name: Electrolysed Water

Trade names: Solu-safe Machine Safe Disinfect

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

Use Biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

1.3. Details of the supplier of the safety data sheet. Supplier: Ionic Purification Ltd

Silkmill House, 196 Huddersfield Road, Meltham, HD9 4AW

Tel: +44 (0) 1484 691858

1.4. Emergency telephone number.

+44 (0) 1484 691858

Emergency telephone comments: The emergency telephone is open between 9 a.m. and 5 p.m. on working days.

Section 2: Hazards identification

CLP-classification (Regulation (EC) No 1272/2008):

The product shall be classified as **non-hazardous** according to EU classification and labelling rules.

2.1 Health effects Eyes: The product may cause minor irritation to people with extremely sensitive eyes.

2.2 Health effects Skin: The product may cause slight irritation to very sensitive skin or open wounds.

2.3 Health effects Ingestion: In rare cases, swallowing undiluted product may cause minor irritation to the throat and digestive tract.

2.4 Health effects Inhalation: In rare cases inhalation of the product may cause some minor discomfort in the respiratory tract.



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Section 3: Composition and information on the ingredients

The product contains active chlorine compound HOCl (FAC in mg/l or ppm) in the range of 0.045-0.055% generated from sodium chloride by means of electrolysis. The average/standard amount of active chlorine is ~0.05%. The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)

Ingredients	CAS-No	EINICS-No	Wt/vol %	Symbols
Water	7732-18-5	231-791-2	99.6%	H ₂ O
Sodium Chloride	7647-14-5	231-598-3	0.35%	NaCl
Hypochlorous acid	7790-92-3	232-232-5	0.05%	HOCl

Section 4: First aid Measures

4.1. Description of first aid measures

Eye contact: If irritation should occur, flush with cool fresh water.

Skin Contact: If irritation should occur, wash the skin wash with soap and warm water.

Ingestion: If more than 0.5 litres is consumed, drink cool fresh water to flush through and dilute.

Inhalation: If dizziness and nausea ensue, remove at once to fresh air, if it persists, seek medical attention.

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

In rare cases, may cause slight irritation to the skin and eyes.

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

Treat symptoms. No special immediate treatment required.

Section 5: Fire Fighting Measures

There are no special requirements for the product, it is not flammable

Section 6: Accidental Release Measures

6.1. Personal precautions:

None.

6.2. Environmental precautions:

The solution is biodegradable and has a limited activation period so there are no potential risks to the environment.

6.3. Methods and material for containment and cleaning up

Wipe up with disposable towels there are no special disposal instructions.



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6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

Section 7: Handling and Storage

7.1. Precautions for safe handling:

For those with very sensitive skin it may be advisable to wear gloves.

7.2 Conditions for safe storage including any incompatibilities:

Store in a cool dry ventilated area in sealed plastic containers and ensure the solution is correctly labelled

7.3. Specific end use(s)

None

Section 8: Exposure Control/ Personal Protection

8.1. Control parameters

Legal basis: Directive 2000/39/EC as subsequently amended. Contains no substances subject to reporting requirements.

8.2. Exposure controls

Respiratory Protection:

Under normal usage conditions, including fogging, no precautions are required.

Hand protection:

Under normal usage conditions, no precautions are required. Users with extremely sensitive skin may require protective gloves.

Eye and facial protection: Under normal usage conditions there are no requirements.

Body protection: Under normal usage conditions, no precautions are required.

Section 9: Chemical and Physical Properties

Physical state: Liquid

Colour and Appearance: Clear, transparent liquid (like water)

Odour: Faint odour similar to bleach, depending on strength of the solution

Solubility in water: Completely soluble

PH-values: 6.2 - 6.7



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Melting-point: 0oC.

Boiling-point: 100oC.

Fire-focus: N/A

Flammability: None **Upper/lower flammability limits:** N/A **Explosive:** N/A

Upper/lower explosive limits: N/A

Density: app. 1,000 kg.m³

Steam-pressure: app. 2,330 Pa

Relative density: 1

Section 10: Stability and Reactivity

10.1. Reactivity Not reactive.

10.2. Chemical stability The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid None known.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological Information

Acute toxicity - oral: Ingestion of large quantities may cause discomfort. The product does not have to be classified.

Acute toxicity - dermal: The product does not have to be classified.

Acute toxicity - inhalation: The product does not have to be classified.

Skin corrosion/irritation: May cause slight irritation. The product does not have to be classified.

Serious eye damage/eye irritation:

May cause slight eye irritation. The product does not have to be classified.

Respiratory sensitisation or skin sensitisation:



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The product does not have to be classified. **Germ cell mutagenicity:** The product does not have to be classified. **Carcinogenic properties:** The product does not have to be classified. **Reproductive toxicity:** The product does not have to be classified.

Single STOT exposure: Inhalation of vapours from a freshly opened container may cause irritation to the upper airways. The product does not have to be classified.

Repeated STOT exposure: The product does not have to be classified.

Aspiration hazard: The product does not have to be classified.

Other toxicological effects: None known.

Section 12: Environmental Information

12.1. Toxicity

The product does not have to be classified.

12.2. Persistence and degradability

Expected to be 100% biodegradable.

12.3. Bio-accumulative potential

No bio-accumulation expected.

12.4. Mobility in soil

No test data available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

Section 13: Disposal Procedures

There are no special disposal procedures.

Section 14: Transport procedures

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user -



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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code –

Section 15: Regulatory Information

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products. Ionic Purification Ltd.

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

Special provisions: None.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

Section 16: Other Information

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

H-phrases: No H-phrases.

Revisions: Current version:1.0 / UK Dated: 01-12-2023

Replaces -

Duty of Care: As part of their duty of care, we advise that users have a working

knowledge of the contents of this safety data sheet prior to use. The information contained in this data sheet is representative of typical product but batches may exhibit minor variations. In case of doubt or for clarification please contact Ionic Purification Ltd.

Ionic Purification Ltd. is unable to anticipate all conditions under which the product may be used, and users are advised to carry out an assessment of workplace risk and carry out their own tests to determine Safety and Suitability for the process and conditions of use.

This safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.