



**SUPERSTEAM**  
THE CHOICE OF CLEANING PROFESSIONALS

## **Safety Data Sheet (SDS)**

### **Z Water (pH 12.5)**

#### **Section 1: Identification**

Product Identifier: Z Water (pH 12.5)  
Recommended Use: Purified alkaline water suitable for cleaning various surfaces.  
Non-toxic and biodegradable. Safe upon skin and indirect food contact.

Supplier: SuperSteam Asia Pacific Pte Ltd  
11 Changi South Street 3 #03-02  
Singapore 486122  
Phone: +65 6595 4333 (Mon-Fri, 9am – 6pm)  
Fax: +65 6745 2440  
Email: info@SuperSteam.com.sg



036-013-2785  
ENVIRONMENTALLY PREFERRED  
CLEANING AGENT

***This product is made in Singapore in a ISO 22000:2018 compliant facility.***

#### **Section 2: Hazards Identification**

##### **GHS Classification**

- Acute toxicity (oral): Category 5
- Aquatic environment acute toxicity: Not classified

#### **Section 3: Composition / Information on Ingredients**

Component Name	CAS	Composition
Water	7732-18-5	>99%
Potassium hydroxide	1310-58-3	0.17%

#### **Section 4: First-Aid Measures**

##### **General Advice:**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Seek medical advice if you feel unwell. Show this safety data sheet to the doctor in attendance.

##### **Eye Contact:**

If there is contact with eyes, immediately rinse eyes with running water for more than 15 minutes. Remove contact lenses and rinse the lenses. Seek medical help if necessary.

**Ingestion:**

If it is swallowed, drink large amount of water and seek medical help if necessary. Do not induce vomiting unless instructed by a physician.

## Section 5: Fire-Fighting Measures

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**Special fire-fighting measure:**

Because it is incombustible, select the appropriate fire extinguishing agent to the fire in the surroundings.

**Personal protection:**

Use appropriate protective equipment (safety glasses, etc)

## Section 6: Accidental Release Measures

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**Personal precautions, protective equipment and emergency measures:**

Wipe it off and avoid contact with eyes or mouth

**Spill and leak response:**

Stop the flow of the material. Contain and absorb using appropriate absorbent material.

## Section 7: Handling and Storage

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**Precautions for Safe Handling:**

- Precaution against exposure: avoid contact with eyes and mouth
- Local ventilation and general ventilation: none
- Safe handling precaution: none

**Conditions for safe storage, including any incompatibilities:**

- Chemicals to be mixed: none
- Appropriate storage condition: avoid direct sunlight, store indoor with good ventilation.  
Seal the container when it is not in use
- Safe packaging materials: use product container

## Section 8: Exposure Controls/Personal Protection

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**Facilities:**

It is advisable to handle in a facility equipped with local or general exhaust ventilation system.

**Chemical name:**

Purified alkaline ionized water

**Allowed concentration:**

Japan Society for Occupational Health allows maximum concentration of 2 mg/m<sup>3</sup> of KOH.

**Eye protection:**

Wear safety glasses as a minimum eye protection. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice.

**Section 9: Physical and Chemical Properties**

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Appearance at 25°C:	Colorless liquid
Odour:	Odorless

**Property:**

pH:	12.5 ( $\pm$ 0.7)
Freezing point:	Not available
Initial boiling point / range:	100°C ( $\pm$ 5°C)
Flashpoint:	Not available
Evaporation Rate:	Not available
Flammability:	Not available
Upper/lower flammability:	Not available
Vapour Pressure:	Non volatile
Vapour Density:	Not available
Relative Density:	1.00 (at 25°C)
Solubility in water at 25°C:	Completely soluble
Partition Coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

**Section 10: Stability and Reactivity**

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**Reactivity:**

N.A.

**Chemical Stability:**

The product is stable.

**Possibility of Hazardous Reactions:**

Stable under normal conditions.

**Conditions to Avoid:**

Avoid freezing and excessive temperature.

**Hazardous Decomposition Products:**

No hazardous decomposition products are known.

## Section 11: Toxicological Information

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- Acute toxicity: oral, classified as category 5
- Carcinogenicity: non-carcinogenic
- Mutagenicity: non-mutagenic

## Section 12: Ecological Information

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### Ecotoxicity Effects:

Not available

### Persistence and Degradability

Fully biodegradable.

### Bioaccumulative Potential

Not available

### Mobility in Soil

No available information

### Other Adverse Effects

N.A.

## Section 13: Disposal Considerations

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Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

## Section 14: Transport Information

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UN Number: N/A (not classified as hazardous)  
This product is not regulated under IATA/ICAO.

## Section 15: Regulatory Information

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### Applicable National Regulations:

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations:  
This product is subject to the SDS, labelling and other requirements in the Act/Regulations.

Environmental Protection and Management Act: This product is subject to the requirements in the Act/Regulations.

## Section 16: Other Information

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### Usage information

Use neat for heavy soil  
Dilute 1:31 for regular wiping  
Close the cap tightly after use

**Expiry date:** 2 years from the date of production (unopened cap, intact seal, stored in normal temperature away from high heat and direct sunlight).

The pH of Z Water is dependent on the temperature and there is a scientific reason behind this. For example, at room temperature, Z water may show pH 12.1 – 12.3. At 17°C and 30°C, Z water may show pH 12.5 and 11.9, respectively. While higher temperature will decrease the pH, customers can feel assured that Z Water can in fact clean better.

Date Created and Latest Revision(s)

**26 April 2016:** Date of issue of SDS.

**26 October 2016:** Updated Section 1 with Green Label

**30 November 2017:** Updated Section 2 and Section 6

**29 December 2017:** Updated Section 16

**13 March 2018:** Last review without changes

**23 November 2018:** Updated Section 1

**15 March 2019:** Date of review of SDS without any changes

**30 September 2020:** Updated Section 14

**22 October 2020:** Updated Section 1

**4 November 2020:** Updated Section 1, 9 and 16

**7 June 2021:** Updated Section 1, 2, 4, 5, 6, 8, 13 and 14

**Product proudly manufactured in Singapore.**

SuperSteam Asia Pacific Pte Ltd is a one-stop distributor of professional cleaning machines, janitorial supplies and cleaning chemicals. Please feel free to contact us if you have any questions on this product or face any cleaning problems.

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**~ End of SDS ~**