SAFETY DATA SHEET

DISTILLED WATER

CAS No.: 7732-18-5

This Safety Data Sheet is issued by Suraj Chemicals as the distributor/supplier of record, based on manufacturer and published GHS / regulatory reference data for this substance. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

GHS Product identifier

DISTILLED WATER
Purified Water; Aqua Destillata; DM Water (Demineralised, related grade)
CAS: 7732-18-5

Other means of identification

Not relevant

Recommended use of the chemical and restrictions on use

Relevant uses: topping-up fluid for lead-acid batteries, laboratory and analytical use, boiler/steam-generation feed water, general industrial process water requiring low mineral content. For industrial/commercial user only.

Uses advised against: All uses not specified in this section or in section 7.3.

Supplier's details

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

Emergency phone number

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Not classified	Not classified as hazardous under GHS physical, health or environmental hazard criteria

GHS label elements, including precautionary statements

GHS: No signal word (Not classified as hazardous)

Hazard statements
None.

Precautionary statements
None.

Other hazards which do not result in classification

None; this product is water purified by distillation and is not hazardous under normal conditions of use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Chemical description: Water (distilled)
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 7732-18-5	Water (distilled) — Not classified under any GHS hazard category	100%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

Mixtures

Non-applicable

4. FIRST AID MEASURES

Description of necessary first-aid measures

Request medical assistance immediately, showing the SDS of this product.

By inhalation
Not applicable/not expected to require first-aid measures.

By skin contact
Not applicable/not expected to require first-aid measures.

By eye contact
If irritation occurs (e.g., from contamination), rinse eyes with water.

By ingestion/aspiration
Not applicable; this product is water. Seek medical attention only if illness results from contamination of the water.

Most important symptoms/effects, acute and delayed

None expected under normal conditions of use.

Indication of immediate medical attention and special treatment needed, if necessary

Not relevant

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable: Non-flammable; use extinguishing media appropriate to the surrounding fire
Unsuitable: None known

Specific hazards arising from the chemical

Non-flammable, non-combustible. No specific fire hazard.

Special protective actions for fire-fighters

No specific fire-fighting measures required for this product.

Additional provisions

Use water spray to cool fire-exposed containers. Prevent fire-fighting water from entering drains or watercourses. Approach the fire from upwind where possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Isolate leaks provided there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders

Wear protective equipment. Keep unprotected persons away. See section 8.

Environmental precautions

None; not an environmental hazard.

Methods and materials for containment and cleaning up

Mop up or allow to evaporate/drain normally; no special containment required.

Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

A. General precautions for safe use

No special precautions required for safe handling under normal conditions of use. Maintain hygienic handling practices to avoid microbiological contamination.

B. Technical recommendations for the prevention of fires and explosions

Non-flammable; no fire or explosion hazard.

C. Technical recommendations on general occupational hygiene

Standard industrial hygiene practices apply.

D. Technical recommendations to prevent environmental risks

No special environmental precautions required.

Conditions for safe storage, including any incompatibilities

A. Specific storage requirements

Minimum Temp.	0°C (avoid freezing in closed containers)
Maximum Temp.	40°C
Maximum time	Indefinite (store in a clean, closed container to avoid contamination)

B. General conditions for storage

Store in clean, closed containers to prevent microbiological or particulate contamination. For additional information see subsection 10.5.

Specific end use(s)

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No specific occupational exposure limit has been established for this substance under Indian or internationally harmonized OEL lists currently referenced. Apply general dust/mist limits (e.g., 10 mg/m³ total inhalable / 3-5 mg/m³ respirable, as applicable) as good industrial hygiene practice.

Appropriate engineering controls

It is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding occupational exposure limits, in addition to individual protective equipment (PPE) as needed. Consult the manufacturer's information leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection

Not required.

C. Specific protection for the hands

Not required for normal handling.

D. Eye and face protection

Not required for normal handling.

E. Bodily protection

Not required for normal handling.

F. Additional emergency measures

Emergency shower (ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011) and eyewash stations (DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011) should be available.

Environmental exposure controls

Avoid environmental spillage of both the product and its container. See subsection 7.1.D.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	
Physical state at 20°C	Liquid
Appearance	Clear liquid
Color	Colourless
Odor	Odourless
Odour threshold	Not applicable
Volatility	
Boiling point at atmospheric pressure	100°C
Vapour pressure at 20°C	23.4 hPa (literature)
Evaporation rate at 20°C	1 (reference substance)
Product Description	
Density / Relative density at 20°C	1.00 g/cm³
Dynamic / Kinematic viscosity	~1.0 mPa·s (literature)
Concentration	100%
pH	~7 (neutral)
Vapour density at 20°C	0.62 (air = 1)
Partition coefficient n-octanol/water 20°C	Not applicable
Solubility in water at 20°C	Miscible (is water)
Decomposition temperature	Not applicable
Melting point/freezing point	0°C
Flammability	
Flash Point	Non-applicable (non-flammable)
Flammability (solid, gas)	Non-flammable
Autoignition temperature	Non-applicable
Lower / Upper flammability limit	Non-applicable
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

** Not relevant due to the nature of the product, not providing information on the properties of its hazards.*

Other information

Explosive properties	Not relevant
Oxidising properties	Non-oxidising
Corrosive to metals	Not corrosive
Heat of combustion	Not applicable (non-combustible)
Surface tension at 20°C	72.8 mN/m (literature)
Refraction index	1.333 (literature)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

None expected. Reacts with reactive metals (e.g., sodium, potassium) and strong dehydrating agents such as concentrated sulphuric acid, oleum and many anhydrous salts/acid chlorides – none of which are inherent to this product.

Conditions to avoid

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Boils at 100°C; freezes at 0°C	Stable	Not applicable (is water)

Incompatible materials

Reactive Metals (Na, K, etc.)	Strong Dehydrating Agents
Avoid contact (violent reaction if such materials are present elsewhere)	Avoid contact

Hazardous decomposition products

None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect)
Not expected to cause harm; this product is water.

B. Inhalation (acute effect)
Not applicable (liquid, low vapour hazard).

C. Contact with skin and eyes (acute effect)
Not expected to cause irritation.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)
Not classified; not applicable.

E. Sensitizing effects
Not applicable.

F. Specific target organ toxicity (STOT) – single exposure
Not applicable.

G. Specific target organ toxicity (STOT) – repeated exposure
Not applicable.

H. Aspiration hazard
Not relevant.

Product-specific toxicological information

Identification	Acute Toxicity	Genus
Water CAS: 7732-18-5	Non-toxic; no LD50/LC50 applicable	–

12. ECOLOGICAL INFORMATION

Not hazardous to the aquatic environment (is water).

Toxicity

Identification	Acute Toxicity	Genus
Water CAS: 7732-18-5	Non-applicable	–

Persistence and degradability
Not applicable (is water; not an organic pollutant).

Bioaccumulative potential
Not applicable.

Mobility in soil

Koc	Henry	Dry Soil	Moist Soil
Not applicable	Not applicable	Not applicable	Not applicable

Results of PBT and vPvB assessment
Not applicable.

Other adverse effects
None expected.

13. DISPOSAL CONSIDERATIONS

Disposal methods

May be discharged to normal drainage/sewer in accordance with local water discharge regulations, subject to any contamination picked up during use. Dispose of contaminated water per its contaminant profile.

Refer to national and local regulations on waste management (Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016, as amended).

14. TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023)

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not classified as dangerous goods for transport
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22)

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not classified as dangerous goods for transport
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024)

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not classified as dangerous goods for transport
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Environmental hazard	No
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
Public Liability Insurance Act, 1991

16. OTHER INFORMATION

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3

Not applicable – product is water and is not classified as hazardous.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources

United Nations GHS (Rev. 8); ECHA Classification & Labelling Inventory; publicly available peer-reviewed and regulatory toxicological/ecotoxicological literature for this CAS number.

Abbreviations and acronyms

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | COD: Chemical Oxygen Demand | BOD5: 5-day biochemical oxygen demand | BCF: Bioconcentration factor | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer

Disclaimer: The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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