



# MATERIAL SAFETY DATA SHEET MSDS

## **DEMINERALIZED WATER**

REVISION DATE: 8/11/2022

### 1. - PRODUCT AND COMPANY IDENTIFICATION

Product name: Demineralized Water  
Internal Code of product identification:  
Company name: USIQUÍMICA DO BRASIL LTDA.  
Address: Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.  
Company Phone: + 5511 3821-7000 (PBX system) - + 5511 2481-3355.  
Emergency phone: AMBIPAR - Environmental Emergency.  
DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.  
193 – Firefighters.

Main recommended uses for the substance: Suitable for cooling system and batteries. Recommended for radiator additives concentrated in water with 0% minerals and harmful impurities to the system, ensuring the control of the vehicle's electrical conductivity.

### 2. - HAZARD IDENTIFICATION

Classification of Substance:  
Product not classified by the GHS system.

GHS label elements, including precautionary phrases:

LABEL ELEMENTS	DATA
Product identification and supplier emergency telephone number.	Commercial Name: DEMINERALIZED WATER Emergency phone: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Hazard pictograms.	Product not classified by the GHS system.
Warning words.	Product not classified by the GHS system.
Danger phrases.	Product not classified by the GHS system.
Caution Phrases	Product not classified by the GHS system.

Other hazards which do not result in classification:  
No information found.

Precautionary recommendations:  
Wash your hands after handling the product.  
When handling the product, do not drink, eat or smoke.  
It is recommended to use appropriate PPE's when handling the product. Obtain product information before handling.  
Store the product in a suitable place.  
In case of emergency, proceed as indicated in the MSDS.

### 3. - COMPOSITION AND INFORMATION ABOUT INGREDIENTS

Nature of ingredients and composition: This product is a preparation. Purified water through the reverse osmosis process, chemically pure and free from soluble salts.  
Synonyms: Mineral-free water.  
Chemical Formula: H<sub>2</sub>O.  
Product classification Product not classified.  
Ingredients that contribute to the danger: Not applicable.

### 4. - FIRST AID MEASURES

First aid measures:  
Inhalation: Remove casualty to uncontaminated, ventilated area. If breathing is difficult, give oxygen.



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Apply resuscitation maneuvers in case of cardiorespiratory arrest. Immediately forward to the nearest hospital.

Skin contact: Remove clothing contaminated by the product. Wash contact areas with plenty of soap and water. If irritation persists, seek medical attention.

**Eye contact:** Immediately wash eyes with running water for 15 minutes, lifting eyelids to allow maximum removal of product. seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If a large amount of this substance is ingested, refer immediately to a doctor.

What actions must be avoided: Do not induce to vomiting. If vomiting occurs spontaneously, the victim must be laid on their side to prevent pulmonary aspiration. Never administer liquids to unconscious victims.

Brief description of the main symptoms and effects: No known or expected symptoms.

Notes to the physician: If necessary, provide symptomatic treatment.

### 5. - FIREFIGHTING MEASURES

Suitable extinguishing measures: Use carbon dioxide (CO<sub>2</sub>), foam, water mist or dry chemical powder.

Inappropriate extinguishing measures: Direct water jets.

Specific hazards: Combustion of the chemical product or its packaging may form irritating and toxic gases. Hazardous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames of matches and cigarettes, soldering operations, pilot lamps and electric motors. It can accumulate static charge by flow or shaking. Vapors from heated liquid may ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. They can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers can explode if heated.

Fire fighter Protection: Special protective equipment for personnel assigned to fight fires. Do not stay in the danger zone without self-contained breathing apparatus suitable for breathing independently of the environment. To avoid skin contact, maintain a safe distance and wear suitable protective clothing. Refresh closed containers exposed to fire with water spray. Suppress (shoot down) with water jets (fog) gases, vapors and mists. Avoiding contamination of surface water and groundwater with firefighting water.

### 6. - MEASURES OF CONTROL FOR ACCIDENTAL SPILLS OR LEAKAGE

Personal precautions, protective equipment and emergency procedures:

Personnel who are not part of the emergency services: Do not breathe vapors or aerosols. Avoiding contact with the substance. Ensuring adequate ventilation. Evacuating the danger area, observe emergency procedures. If necessary, consult an expert.

For the staff of the emergency department: Use complete PPE, with protective gloves, safety glasses. The material used must be waterproof.

Removal of ignition sources: Keep away from sources of heat and ignition.

Prevention of inhalation and contact with skin, mucous membranes and eyes: See Section 8, Field: "Appropriate Personal Protective Equipment".

Precautions to the environment: Prevent spilled product from entering water courses.

Methods and materials for containment and cleaning up: Use water mist or vapor suppressing foam to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in proper containers. Adsorb remaining product with dry sand, earth, vermiculite, or any other inert material. Place adsorbed material in appropriate containers and remove to a safe place.

Disposal: Waste must be disposed of in accordance with current Environmental Legislation. Keep chemicals in their original containers. Do not mix with other waste. Handling dirty containers must be carried out in the same way as the product itself. An WSDS of the waste must be generated.

Differences in the action of large and small leaks: Absorb liquid with inert material. The product must be collected in suitable containers, properly identified, for later disposal.

### 7. - HANDLING AND STORAGE

Handling:

Technical measures Using only in areas provided with adequate exhaust ventilation.



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Providing the product handling area with a set of emergency shower and eye wash. Handling must only be done with the indicated PPE and under safe conditions.

Prevention of worker's exposure: Avoiding the formation of vapors/aerosols. Working with exhaust / chimney. Do not inhale the substance/mixture. Wash after handling and decontaminate PPE's after use. PPE's must be approved for use only with the respective CAs – Certificates of Approval.

Precautions and guidelines for safe handling: Use personal protective equipment (PPE) to avoid direct contact with the product. Handling the product in a well-ventilated place. Use a gloves and full body clothing when handling this product.

### Storage:

Appropriate: Keep container tightly closed in a dry, cool and well-ventilated area. Keep in a cool, dry place in unopened original packaging.

To avoid: Avoid extreme heat.

### Hygiene measures:

Appropriate: Always sanitize your hands before handling any food, as there is a risk of food contamination. Contaminated clothing must be washed and sanitized before use. Always keep gloves free from moisture and decontaminated.

Inappropriate: Direct contact with the product and/or its residues.

### Technical measures

Suitable conditions: Store in a dry, cool and ventilated place, protected from direct sunlight. Store in tightly closed original container. Keep stored at room temperature not exceeding 35°C.

### Safe materials for packaging:

Recommendations: Original packaging.

Not suitable: Any other packaging.

Further information: Protect from extreme cold, heat and sunlight.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Parameters of specific control:** Not established.

Components with parameters to be controlled in the workplace:

Biological indicators: Not established.

Other limits and values: Not established.

**Measures of engineering control:** Handling the product in a place with good natural or mechanical ventilation, in order to keep the concentration of vapors/dust below the tolerance limit. Provide mechanical ventilation and direct exhaust system to the outside environment. These measures help to reduce exposure to the product. It is recommended to make emergency showers and eye washes available in the work area. Engineering control measures are most effective in reducing product exposure.

Appropriate Personal Protective Equipment:

Protection for the eyes/face: Safety Glass.

Skin protection: Protective clothing at work.

Respiratory protection: A risk assessment must be performed for adequate definition of respiratory protection in view of the conditions of use of the product. Follow guidance from the Respiratory Protection Program (PPR), Fundacentro.

Hand protection: PVC gloves.

Thermal hazards: It does not present thermal hazards.

Further information: Avoiding contact with the skin, eyes and mucosa for a long period, carrying out instantaneous washing of the affected areas. Avoid wearing contact lenses while handling this product.

## 9. - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Color: Colorless.

Odor: Odorless.

Odor threshold: Not available.



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pH (25°): 6.5-7.5.

**Melting point / freezing point:** Not available.

Initial boiling point and boiling temperature range: Not available.

Flash point: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Product is not self-igniting.

Lower/upper flammability or explosiveness limit: Product is not self-igniting. Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density: Not available.

Solubility (in water): Not available.

Partition coefficient - n-octanol / water: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

## 10. - STABILITY AND REACTIVITY

Specific conditions:

Reactivity: Stable product if stored and handled under the proper and indicated conditions.

Chemical stability: Stable under usual handling and storage conditions.

Possibility of hazardous reactions: It does not present conditions that will cause particularly dangerous reactions.

Conditions to avoid: High temperatures.

Incompatible materials: Incompatible materials are not known.

Hazardous decomposition products: No hazardous decomposition products known.

## 11. - TOXICOLOGICAL INFORMATION

Information according to the different routes of exposure:

Acute toxicity:

The product is not expected to present acute toxicity.

Skin corrosion/irritation.

The product is not expected to cause skin irritation.

Severe ocular lesions/eye irritation:

The product is not expected to cause eye irritation.

Respiratory or skin sensitization

The product is not expected to show respiratory or skin sensitization.

Germ cell mutagenicity

The product is not expected to show germ cell mutagenicity.

Carcinogenicity

The product is not expected to be carcinogenic.

Reproductive toxicity

The product is not expected to present reproductive toxicity.

Specific target organ toxicity - single exposure

The product is not expected to exhibit specific target organ toxicity - single exposure.

Specific target organ toxicity - repeated exposure

The product is not expected to present specific target organ toxicity – repeated exposure.

Aspiration hazard:

The product is not expected to present an aspiration hazard.

Additional Information

Product: Based on available data, the assessment criteria are not met.



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**12. - ECOLOGICAL INFORMATION**

Environmental effects, behaviors and impacts of the product:

Ecotoxicity:

Product not classified as hazardous to the aquatic environment. The product does not pose a risk to the environment.

Persistence and degradability:

Due to the lack of data, it is expected that the product will show persistence and not be quickly degraded.

Bio accumulative potential:

It has low bio accumulative potential in aquatic organisms.

Mobility in soil

Not determined.

Product: Ecological additional information: Not available.

**13. - CONSIDERATIONS ON TREATMENT AND DISPOSAL**

Recommended methods for final disposal:

The treatment and disposal of product residues must be done in a suitable environment, by people trained in the use of special equipment and the recommended PPE's to avoid contact with the product, its vapors or mists. Leaks must be contained and collected for later disposal after neutralization.

Product:

Ensure all Federal, State and local agencies receive proper notice of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, as of August 2, 2010 (National Solid Waste Policy).

Product waste:

Consult environmental regulatory agencies for advice on acceptable regulatory practices. Come in contact with relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of in an approved chemical waste landfill.

Used Package:

Empty containers must be drained and covered before handling and transport operations. If the package is not properly washed and decontaminated, it is considered to contain the product.

**14. - TRANSPORT INFORMATION**

National and International Regulations

Land:

Resolution No. 5947 of June 1, 2021 of the Brazilian National Land Transport Agency (ANTT), *Approves the Supplementary Instructions to the Land Transport of Dangerous Goods Regulations and their amendments.*

NU Number: Product not covered by current regulations on the transport of dangerous products.

Appropriate name for shipment: -

Risk class: -

Risk subclass: -

Risk number: -

Packing group: -

Waterway:

DPC – Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Regulations (NORMAM) NORMAM 01/DPC: Vessels Used in Open-seas Navigation

ONU Number: Product not covered by current regulations on the transport of dangerous products.

Appropriate name for shipment: -

Risk class: -

Risk subclass: -

Risk number: -

Packing group: -



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### Air Transport:

ANAC - National Civil Aviation Agency - Resolution No. 129 as of January 8, 2009

RBAC N°175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORTATION OF DANGEROUS ITEMS IN CIVIL AIRCRAFT

IS No. 175-001 - SUPPLEMENTARY INSTRUCTION - IS

ICAO - "International Civil Aviation Organization" - Doc 9284-NA/905

IATA - "International Air Transport Association"

Dangerous Goods Regulation (DGR)

ONU Number: Product not covered by current regulations on the transport of dangerous products.

Appropriate name for shipment: -

Risk class: -

Risk subclass: -

Risk number: -

Packing group: -

## 15. - REGULATIONS INFORMATION

Specific regulations for the chemical product:

Federal Decree No. 2,657, as of July 3, 1998;

Standard ABNT-NBR 14725:2019;

Ordinance No. 229, as of May 24, 2011 – Changes Regulatory Standard No. 26.

## 16. - OTHER INFORMATION

The information on this sheet corresponds to the current state of our knowledge and experience of the product and is not exhaustive. It applies to the product under the conditions specified, unless otherwise stated. In case of combinations or mixtures, make sure that no new danger can appear. This information does not, in any case, exempt the user of the product from complying with all legislative, regulatory and administrative texts relating to the product, safety, hygiene and protection of human and environmental health.

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