

# Safety Data Sheet

## Deionized Water



### Section 1 Product Description

**Product Name:** Deionized Water  
**Recommended Use:** Science education applications  
**Synonyms:** Hydrogen oxide, Distilled Water  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Deionized Water	7732-18-5	100

### Section 4 First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** No hazard under normal usage.  
**Ingestion:** Not expected to be harmful by ingestion.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Not combustible. Use extinguishing media appropriate for surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** None Known  
**Hazardous Combustion Products:** None Known

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No adverse health affects expected from the clean-up of spilled material.  
Contain the discharged material.

### Section 7 Handling and Storage

**Storage:** Suitable for any general chemical storage.  
**Storage Code:** Green - general chemical storage

### Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Deionized Water				

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No data available

N/A

N/A

N/A

N/A

## Control Parameters

### Engineering Measures:

No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

### Personal Protective Equipment (PPE):

Not Normally Required

### Respiratory Protection:

No respiratory protection required under normal conditions of use.

### Eye Protection:

No special requirements under normal industrial use.

### Skin Protection:

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

### Gloves:

No information available

## Section 9

## Physical Data

**Formula:** H<sub>2</sub>O

**Molecular Weight:** 18.01

**Appearance:** Colorless Liquid

**Odor:** None

**Odor Threshold:** No data available

**pH:** 7

**Melting Point:** = 0 C

**Boiling Point:** 100 C

**Flash Point:** No data available

**Flammable Limits in Air:** No data available

**Vapor Pressure:** 14

**Evaporation Rate (BuAc=1):** 1

**Vapor Density (Air=1):** No data available

**Specific Gravity:** No data available

**Solubility in Water:** Soluble

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** 10

**Percent Volatile by Volume:** No data available

## Section 10

## Reactivity Data

### Reactivity:

Not generally reactive under normal conditions.

### Chemical Stability:

Stable under normal conditions.

### Conditions to Avoid:

None known.

### Incompatible Materials:

Water-reactive materials

### Hazardous Decomposition Products:

None Known

### Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

**Symptoms (Acute):** No data available

**Delayed Effects:** No data available

### Acute Toxicity:

#### Chemical Name

Deionized Water

#### CAS Number

7732-18-5

#### Oral LD50

Oral LD50 Rat  
90000 mg/kg

#### Dermal LD50

Not determined

#### Inhalation LC50

Not determined

### Carcinogenicity:

#### Chemical Name

No data available

#### CAS Number

7732-18-5

#### IARC

Not listed

#### NTP

Not listed

#### OSHA

Not listed

### Chronic Effects:

#### Mutagenicity:

No evidence of a mutagenic effect.

#### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

#### Sensitization:

No evidence of a sensitization effect.

#### Reproductive:

No evidence of negative reproductive effects.

#### Target Organ Effects:

##### Acute:

No data available

##### Chronic:

No data available

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## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Eco Toxicity</b>
Water	7732-18-5	No data available

## Section 13

## Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** This material is not considered to be a RCRA hazardous waste.

## Section 14

## Transport Information

<b>Ground - DOT Proper Shipping Name:</b> Not regulated for transport by US DOT.	<b>Air - IATA Proper Shipping Name:</b> Not regulated for air transport by IATA.
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## Section 15

## Regulatory Information

**TSCA Status:** A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7732-18-5	No	No	No	No	No

## Section 16

## Additional Information

**Revised:** 04/27/2017

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health