



# Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

|                                |                   |
|--------------------------------|-------------------|
| Trade name/designation:        | Deionized water   |
| Product No.:                   | 96887             |
| Synonymes:                     | no data available |
| CAS No.:                       | 7732-18-5         |
| Other means of identification: |                   |

### Relevant identified uses of the substance or mixture and uses advised against

|                       |                                    |
|-----------------------|------------------------------------|
| Recommended Use:      | For Further Manufacturing Use Only |
| Uses advised against: | Not for Human or Animal Drug Use   |

### Details of the supplier of the safety data sheet

*Canada*

### Supplier

#### **VWR International LLC**

|                  |  |
|------------------|--|
| Street           | 100 Matsonford Road Radnor Corporate Center, Building One, Suite 200 P.<br>O. Box 6660 |
| Postal code/city | Radnor, PA 19087   |
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## Manufacturer

### **VWR International Co.**

Street 2360 Argentia Road  
Postal code/city Mississauga, Ontario, L5N 5Z7

### **Emergency telephone**

Telephone +1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

### **Preparation Information**

VWR International - Data Compliance

E-mail sds@vwr.com

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### **Classification according to Hazardous Products Regulation (SOR/2015-17)**

This substance is classified as not hazardous according to Hazardous Products Regulation (SOR/2015-17)

### 2.2 Label elements

#### **Labelling in accordance with (SOR/2015-17)**

According to Hazardous Products Regulation (SOR/2015-17) the product does not have to be labelled.

Other hazards

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#### **Hazards not otherwise classified (HNOC)**

Not regulated

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

|                   |                  |
|-------------------|------------------|
| Substance name    | Water            |
| Molecular formula | H <sub>2</sub> O |
| Molecular weight  | 18.02 g/mol      |
| CAS No.           | 7732-18-5        |

## SECTION 4: First aid measures

### 4.1 General information

No special measures are necessary.

#### **After inhalation**

No special measures are necessary.





**In case of skin contact**

No special measures are necessary.

**After eye contact**

No special measures are necessary.

**In case of ingestion**

No special measures are necessary.

**4.2 Most important symptoms/effects, acute and delayed**

no data available

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

no data available

**4.4 Self-protection of the first aider**

No special measures are necessary.

**4.5 Information to physician**

no data available

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

**Extinguishing media which must not be used for safety reasons**

no restriction

**5.2 Specific hazards arising from the chemical**

In case of fire may be liberated:

Pyrolysis products, toxic

**5.3 Advice for firefighters**

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

**5.4 Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray/stream to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

In case of major fire and large quantities: Remove persons to safety.

**6.2 Environmental precautions**

Discharge into the environment must be avoided.





### 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

### 6.4 Additional information

Clear spills immediately.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid: Inhalation Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

### 7.2 Conditions for safe storage, including any incompatibilities

storage temperature: Ambient temperature

Storage class: 10-13

Keep container tightly closed in a cool, well-ventilated place.

### 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommended glove articles





By short-term hand contact

|   |                      |
|---|----------------------|
| Suitable material:                        | NBR (Nitrile rubber) |
| Thickness of the glove material:          | 0,12 mm              |
| Breakthrough time (maximum wearing time): | > 480 min            |

By long-term hand contact

|   |                      |
|---|----------------------|
| Suitable material:                        | NBR (Nitrile rubber) |
| Thickness of the glove material:          | 0,38 mm              |
| Breakthrough time (maximum wearing time): | > 480 min            |

*Respiratory protection*

Usually no personal respirative protection necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                      |                   |
|----------------------|-------------------|
| (a) Appearance       |                   |
| Physical state:      | liquid            |
| Color:               | colorless         |
| (b) Odour:           | no data available |
| (c) Odour threshold: | no data available |

#### Safety relevant basic data

|  |                     |
|--|---------------------|
| (d) pH:                                      | 5-9 (20 °C)         |
| (e) Melting point/freezing point:            | 0 °C                |
| (f) Initial boiling point and boiling range: | 100 °C (1013 hPa)   |
| (g) Flash point:                             | no data available   |
| (h) Evaporation rate:                        | no data available   |
| (i) Flammability (solid, gas):               | not applicable      |
| (j) Flammability or explosive limits         |                     |
| Lower explosion limit:                       | no data available   |
| Upper explosion limit:                       | no data available   |
| (k) Vapour pressure:                         | 23 hPa (20 °C)      |
| (l) Vapour density:                          | no data available   |
| (m) Relative density:                        | no data available   |
| (n) Solubility(ies)                          |                     |
| Water solubility (g/L):                      | soluble (20 °C)     |
| Soluble (g/L) in Ethanol:                    | no data available   |
| (o) Partition coefficient: n-octanol/water:  | no data available   |
| (p) Auto-ignition temperature:               | no data available   |
| (q) Decomposition temperature:               | no data available   |
| (r) Viscosity                                |                     |
| Kinematic viscosity:                         | no data available   |
| Dynamic viscosity:                           | 0.952 mPa*s (20 °C) |
| (s) Explosive properties:                    | not applicable      |
| (t) Oxidising properties:                    | not applicable      |

### 9.2 Other information





|                        |                   |
|------------------------|-------------------|
| Bulk density:          | not applicable    |
| Refraction index:      | no data available |
| Dissociation constant: | no data available |
| Surface tension:       | no data available |
| Henry constant:        | no data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

### 10.7 Additional information

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### *Acute oral toxicity:*

LD50: > 90 mL/kg - Rat - (Food Research Journal)

##### *Acute dermal toxicity:*

no data available

##### *Acute inhalation toxicity:*

no data available





**Irritant and corrosive effects**

*Primary irritation to the skin:*  
not applicable

*Irritation to eyes:*  
not applicable

*Irritation to respiratory tract:*  
not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitising  
After inhalation: not sensitising

**STOT-single exposure**

not applicable

**STOT-repeated exposure**

not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| no data available | ACGIH | IARC | NTP | OSHA |
|-------------------|-------|------|-----|------|
|                   |       |      |     |      |

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available





**Additional information**

no data available

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

**Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

### 12.4 Mobility in soil:

no data available

### 12.5 Results of PBT/vPvB assessment

no data available

### 12.6 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

**Appropriate disposal / Package**

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

**Additional information**

no data available







## SECTION 14: Transport information

### Land transport (DOT)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
not relevant





## Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

Domestic Substance List:

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

DOT - Department of Transportation

IARC - International Agency for Research on Cancer

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods

LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

STV - Short Term Value

SVHC - Substances of Very High Concern

TLV - Threshold Limit Value

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)

CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)

Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)

RID - Regulation concerning the International Carriage of Dangerous Goods by Rail

### Additional information

Indication of changes:                      general update

*The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.*

