# SIGMA-ALDRICH

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# SAFETY DATA SHEET

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## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	: Water		
Product Number Brand Product Use	: W4502 : Sigma : For laboratory research purposes		
Supplier	: Sigma-Aldrich Canada Co. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA	Manufactur er	Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	: +1 9058299500		
Fax	: +1 9058299292		
Emergency Phone # (For both supplier and manufacturer)	: +1-703-527-3887 (CHEMTREC)		
Preparation Information	: Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	n	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### WHMIS Classification

Not WHMIS controlled.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

May cause respiratory tract irritation.

Health hazard:	0
Flammability:	0
Physical hazards:	0

**Potential Health Effects** 

Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	:	H <sub>2</sub> O
Molecular Weight	:	18.02 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Water			
7732-18-5	231-791-2	-	<=100%

### **4. FIRST AID MEASURES**

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### **5. FIREFIGHTING MEASURES**

**Conditions of flammability** Not flammable or combustible.

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

no data available**Explosion data - sensitivity to mechanical impact** no data available

Explosion data - sensitivity to static discharge no data available

### Further information

The product itself does not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapours, mist or gas.

#### **Environmental precautions**

No special environmental precautions required.

#### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Personal protective equipment

#### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

#### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

liquid
colourless
6.0 - 8.0 at 25 °C (77 °F)
0.0 °C (32.0 °F)
100 °C (212 °F) - lit.
not applicable
not applicable
no data available
not applicable
not applicable
no data available
1.000 g/cm3 at 3.98 °C (39.16 °F)
completely miscible
no data available

### **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

# Possibility of hazardous reactions

no data available

Conditions to avoid no data available

Materials to avoid Strong oxidizing agents

Hazardous decomposition products no data available

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Oral LD50 no data available

Inhalation LC50 no data available

Dermal LD50 no data available

# Other information on acute toxicity no data available

Skin corrosion/irritation

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

# Germ cell mutagenicity

no data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### **Reproductive toxicity**

no data available

#### Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

# Aspiration hazard

no data available

# Potential health effects

Inhalation

May cause respiratory tract irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information RTECS: ZC0110000

#### **12. ECOLOGICAL INFORMATION**

#### Toxicity

no data available

Persistence and degradability not applicable

**Bioaccumulative potential** no data available

# Mobility in soil

no data available

**PBT and vPvB assessment** no data available

#### Other adverse effects

no data available

#### **13. DISPOSAL CONSIDERATIONS**

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

IATA Not dangerous goods

#### **15. REGULATORY INFORMATION**

#### **WHMIS Classification**

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## **16. OTHER INFORMATION**

#### **Further information**

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