

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04.01.2025

Version: 7.4

Print date: 04.01.2025

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

### 1.1 Product identifier

Trade name/designation:	Water Reag. Ph.Eur. 1095506 nitrate free
Product No.:	87961
CAS No.:	7732-18-5
Index No.:	000-000-00-0
EU REACH No.:	A registration number is not available for this substance as the substance or its use is exempted from registration according to REACH Article 2 or the annual tonnage does not require a registration.
Other means of identification:	none

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

Relevant identified uses:	General chemical reagent
Uses advised against:	The product, as such or as a component of a mixture, is not intended to be used by consumers (as defined by the REACH Regulation).

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

*Ireland*

#### **VWR International Ltd.**

Street	Orion Business Campus, Northwest Business Park
Postal code/City	Ballycoolin, Dublin 15, Republic of Ireland
Telephone	+353 1 8822222
Telefax	+353 1 8822333
E-mail (competent person)	SDS@avantorsciences.com

### 1.4 Emergency phone number

Telephone	+44 (0) 1270 502894 (CareChem24)
-----------	----------------------------------

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## 2.2 Label elements

### 2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

### 2.3 Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

This product does not contain a substance that has endocrine disrupting properties.

## 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
EU REACH registration No.:	A registration number is not available for this substance as the substance or its use is exempted from registration according to REACH Article 2 or the annual tonnage does not require a registration.
EC No.:	231-791-2
ATE, SCL and/or M-factor:	none

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Do not leave affected person unattended.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

#### 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.

#### Self-protection of the first aider

no data available

### 4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

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

No special information on medical attention and special treatment available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn.

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

The product itself does not burn.

### 5.2 Special hazards arising from the substance or mixture

No special fire protection measures are necessary.

In case of fire may be liberated:

Pyrolysis products, toxic

### 5.3 Advice for firefighters

Non-combustible liquids.

The product itself does not burn.

No special fire protection measures are necessary.

## SECTION 6: Accidental release measures

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

For non-emergency personnel: Remove victim out of the danger area. No special measures are necessary.

### 6.2 Environmental precautions

No special environmental measures are necessary.

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

Take up mechanically, placing in appropriate containers for disposal. Dispose according to local legislation.

### 6.4 Reference to other sections

Personal protection equipment: see section 8 Disposal information: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling

No special measures are necessary.

Measures to prevent fire, aerosol and dust generation

No special measures are necessary.

Measures required to protect the environment

No special measures are necessary.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

## 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 15°C – 25°C or 30°C depending on climatic conditions.

Storage class: 10-13

Storage: Store in a dry place. Store in a closed container. Keep/Store only in original container. Packaging materials: Glass High density polyethylene (HDPE) Unsuitable materials and coatings of containers/equipment: No further relevant information available.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

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

### Recommended monitoring procedures:

European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace exposure. Procedures for the determination of the concentration of chemical agents - Basic performance requirements)

## 8.2 Exposure controls

### 8.2.1 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.

### 8.2.2 Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### *Eye/face protection*

Eye glasses with side protection DIN-/EN-Norms EN 166

Recommendation: VWR 111-0432

#### *Skin protection*

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time:	> 480 min
Recommended glove articles:	VWR 112-0998

#### By long-term hand contact

#### *Respiratory protection*

Usually no personal respirative protection necessary.

Suitable respiratory protection apparatus:	no data available
Recommendation:	no data available
Suitable material:	no data available
Recommendation:	no data available

#### *Additional information*

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### **8.2.3 Environmental exposure controls** no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Colour:	colourless
Odour:	no data available

#### Safety relevant basic data

pH:	5-9 (20 °C)
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C (1013 hPa)
Flash point:	no data available
Flammability:	Not applicable
Lower and upper explosion limit	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Vapour pressure:	23 hPa (20 °C)
Relative vapour density:	no data available
Density and/or relative density	
Density:	1 g/cm <sup>3</sup> (4 °C)
Solubility(ies)	
Water solubility:	soluble (20 °C)
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	Not applicable
Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	0.952 mPa*s (20 °C)
Particle characteristics:	does not apply to liquids

## 9.2 Other information

Evaporation rate:	no data available
Explosive properties:	no data available
Oxidising properties:	Not applicable
Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is non-reactive under normal conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No further relevant information available.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute effects

##### *Acute oral toxicity:*

Based on available data, the classification criteria are not met.

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

*Acute dermal toxicity:*

Based on available data, the classification criteria are not met.

*Acute inhalation toxicity:*

Based on available data, the classification criteria are not met.

**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 sensitisation**

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**

No indication of human carcinogenicity.

**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

## 11.2 Information on other hazards

This substance does not have endocrine disrupting properties with respect to humans.

## SECTION 12: Ecological information

### 12.1 Toxicity

**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

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to the environment.

### 12.7 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Appropriate disposal / Product**

no data available

Waste code product: no data available

**Appropriate disposal / Package**

no data available

**Additional information**

European waste management legislation

Directive 2008/98/EC (Waste Framework Directive)

National waste management legislation  
 Act No. 10/1996 - Waste Management Act, 1996  
 Act No. 36/2001 - Waste Management (Amendment) Act, 2001

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	not assigned
14.3	Transport hazard class(es):	none
14.4	Packing group:	not assigned
14.5	Environmental hazards:	none
14.6	Special precautions for user:	none

### Sea transport (IMDG)

14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	not assigned
14.3	Transport hazard class(es):	none
14.4	Packing group:	not assigned
14.5	Environmental hazards:	none
14.6	Special precautions for user:	none
14.7	Maritime transport in bulk according to IMO instruments	not relevant

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

14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	not assigned
14.3	Transport hazard class(es):	none
14.4	Packing group:	not assigned
14.5	Special precautions for user:	none

## SECTION 15: Regulatory information

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

#### EU legislation

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)
- Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### National regulations

no data available

Water hazard class: non-hazardous to water

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
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)  
DNEL - Derived No Effect Level  
Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
KOSHA - Korea Occupational Safety and Health Agency  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PNEC - Predicted No Effect Concentration  
RID - Regulation concerning the International Carriage of Dangerous Goods by Rail  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
vPvB - very Persistent, very Bioaccumulative

### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

### Additional information

Indication of changes                      Section 11

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*