



Safety Data Sheet

Revision Date: 14-aug-2013

Version No.: 1

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name/designation	Water, Universal Chromatography Grade
Product No.	BDH23595 (VWR International)
Substance name	Water
CAS No.	7732-18-5
INDEX no.	not applicable

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

Relevant identified uses for laboratory use and chemical production.

Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

VWR International LLC

Street	100 Matsonford Road Radnor Corporate Center, Building One, Suite 200 P. O. Box 6660
Postal code/city	Radnor, PA 19087
country	United States of America
Telephone	+1-800-932-5000 toll-free within US/CA +1-610-386-1700
Telefax	+1-610-728-2103
E-mail	NAMSDS@vwr.com

Emergency telephone

Telephone	+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA) +1-613-966-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)
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2. Hazards identification

Classification of the substance or mixture

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

This substance is not classified as dangerous according to regulation (EC) 1272/2008 [CLP].

Label elements

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

not applicable

Signal word not applicable

Hazard Statements

not applicable

Precautionary statements

not applicable

Other hazards

WHMIS Classification

Not WHMIS controlled

HMIS Classification

NFPA Rating

Health hazard: 0
Flammability: 0
Physical hazards: 0

Health hazard: 0
Fire: 0
Reactivity hazard: 0

SVHC

No

3. Composition/ Information on ingredients

Molecular formula	H ₂ O
Molecular weight (g/mol)	18.02 g/mol
CAS No.	7732-18-5
EC No	231-791-2
INDEX no.	

4. First-aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a

person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

In case of skin reactions, consult a physician.

After eye contact

not applicable

After ingestion

not applicable

Self-protection of the first aider

not applicable

Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

5. Firefighting measures

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

Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

Advice for firefighters

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

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 jet to protect personnel and to cool endangered containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Additional information

Clear spills immediately.

7. Handling and storage

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.

Conditions for safe storage, including any incompatibilities

storage temperature 15-25°C

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

Specific end use(s)

No data available

8. Exposure controls / Personal protection

Control parameters

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

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1 is identified as a carcinogen or potential carcinogen by OSHA.

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.

Eye / face protection

Wear safety glasses with side protection.

Skin protection

When handling with chemical substances, chemical resistant, impermeable protective gloves should be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Protective clothing

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

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Additional information

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

9. Physical and chemical properties

Information on basic physical and chemical properties

(a) Appearance	
Physical state	liquid
Colour	colourless
(b) Odour	No data available
(c) Odour threshold	No data available

Safety relevant basic data

(d) pH	5 to 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) Upper/lower flammability or explosive limits	
Lower explosion limit (Vol-%)	No data available
Upper explosion limit (Vol-%)	No data available
(k) Vapour pressure	23 hPa (20°C)
(l) Vapour density	No data available
(m) Relative density	1 g/cm ³ (20°C)
(n) Solubility(ies)	
Water solubility (g/l)	soluble
at °C:	20
Soluble (g/l) in	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

Other information

Bulk density	No data available
refraction index	No data available
dissociation constant	No data available
Surface tension	No data available
Henry constant	No data available

10. Stability and reactivity

Reactivity

No data available

Chemical stability

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

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

No data available

Additional information

No data available

11. Toxicological information

Information on toxicological effects

Acute effects

Acute oral toxicity

Effective dose No data available

species: No data available

Exposure time

remark

Source

Acute dermal toxicity

Effective dose No data available

species: No data available

Exposure time

remark

source

Acute inhalation toxicity
Effective dose No data available
species: No data available
Exposure time
remark
source

Irritant and corrosive effects

Primary irritation to the skin
Exposure time
species:
Result

Irritation to eyes
Exposure time
species:
Result

Irritation to respiratory tract
Exposure time
species:
Result

Sensitization

In case of skin contact Not sensitizing.
After inhalation Not sensitizing.

Specific target organ toxicity (single exposure)

Not relevant

Specific target organ toxicity (repeated exposure)

Not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

Not relevant

Other adverse effects
No data available

Additional information
No data available

12. Ecological information

Ecotoxicity

Acute (short-term) fish toxicity

LC50: No data available
EC50
species:
Exposure time

Chronic (long-term) fish toxicity

LC50: No data available
EC50
species:
Exposure time

Acute (short-term) daphnia toxicity

LC50: No data available
EC50
species:
Exposure time

Chronic (long-term) daphnia toxicity

LC50: No data available
EC50
species:
Exposure time

Acute (short-term) algae toxicity

LC50: No data available
EC50
species:
Exposure time

Chronic (long-term) algae toxicity

LC50: No data available

EC50
species:
Exposure time

Persistence and degradability

No data available

Bioaccumulative potential

Partition coefficient: n-octanol/water No data available

Mobility in soil
No data available

Results of PBT assessment
No data available

Other adverse effects
No data available

13. Disposal considerations

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 of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

Additional information

No data available

14. Transport information

Land transport (ADR/RID/DOT-US)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

Additional information

No data available

15. Regulatory information

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

OSHA Hazards

No known OSHA hazards

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Safety Assessment

No data available

16. Other information

Relevant H- phrases (Number and full text)

not applicable

WHMIS Classification

Not WHMIS controlled

HMIS Classification

NFPA Rating

Health hazard: 0

Health hazard: 0

Flammability: 0

Fire: 0

Physical hazards: 0

Reactivity hazard: 0

SVHC

No

Additional information

Indication of changes

general update

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.