Safety Data Sheet

Revision date: 05.2015 *Version: 1.1*

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

1.1. Product identifier

Trade name/designation:	Water (HPLC, Low TOC), BDH Aristar® Plus Water, BDH Aristar® Ultra
Product No.:	87003-650, 87003-652 87003-236
Other means of identification:	No EU Index # listed.

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

Relevant identified uses: For laboratory use only. Not for drug, food, or household use.

1.3. Details of the supplier of the safety data sheet

Manufactured for	VWR International, LLC Radnor Corporate Center 100 Matsonford Road Radnor, PA 19087-8660	VWR International Co 2360 Argentia Road Mississauga, ON L5N 5Z7 CANADA
Telephone	610.386.1700	800.932.5000

1.4. Emergency Telephone number

CHEMTREC	800.424.9300
CANUTEC	613.996.6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) and WHMIS HPR

Not a hazardous substance according to 29 CFR 1910 and WHMIS HPR.

2.2. GHS Label elements, including precautionary statements

Pictograms: Not applicable

Signal word: None

2.4. Hazards not otherwise classified (HNOC) or not covered by GHS or WHIMS

None known.

SECTION 3: Composition / information on ingredients

3.1. Hazard components

Chemical name	Formula	Molecular weight	CAS#	Weight%
Water	H_2O	18.02	7732-18-5	100%

SECTION 4: First aid measures

4.1. General information

No hazards that require special first aid measures. Never give anything by mouth to an unconscious person.

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

None.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not combustible. Use extinguishing media suitable for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Heat from fire can cause a build-up of pressure inside containers, which may cause explosive rupture.

5.3. Special protective equipment for firefighters

As in any fire, wear a positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

5.4. Hazardous combustion products

None.

5.5. Advice for firefighters

No special advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special precautionary measures necessary. Remove or isolate incompatible, flammable or combustible materials.

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with all incompatible materials. See Section 10 for more information.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Do not store with water reactive metals or water reactive substances.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Limit Value Type	Exposure Limit Value	Source
Water	None listed.	Not applicable	Not applicable

8.2. Exposure controls

Personal protective equipment:

Eye/face protection: None required.

Skin protection: Chemical protective gloves and protective clothing to prevent repeated or prolonged contact.

Respiratory protection: None required.

Hygiene measures: Do not eat or drink in work areas. Maintain good housekeeping.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

a)	Appearance:	
	Physical state	Liquid
	Color	Clear, colorless
b)	Odor	Odorless
c)	Odor threshold	Not applicable
d)	pH	7
e)	Melting point/freezing point	0 °C (32.0 °F)
f)	Boiling point/boiling range	100 °C (212.0 °F)
g)	Flash point	Not applicable
h)	Evaporation rate	Less than 1 (butyl acetate = 1)
i)	Flammability (solid, gas)	Not applicable
j)	Upper/lower flammability/explosive limits	Not applicable
k)	Vapor pressure	3.16 kPa (23.8 mm Hg) at 25 °C
l)	Vapor density	0.62 (air = 1) (calculated)
m)	Relative density	1 g/cm^3
n)	Solubilities	Soluble in all proportions in polar solvents such as methanol, ethanol, and acetone. Slightly soluble in slightly polar solvents (e.g. diethyl ether). Insoluble in non-polar solvents (e.g. hydrocarbons, n-hexane).
o)	Partition coefficient (n-Octanol/Water)	Log P(oct) = -1.38
p)	Auto-ignition temperature	Not applicable
q)	Decomposition temperature	Not applicable
r)	Viscosity	1.00 mPa.s (1.00 centipoises) at 20 °C; 0.89 mPa.s (0.91 centipoises) at 24 °C
s)	Explosive properties	Not applicable
t)	Oxidizing properties	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

See Section 10.5 for incompatible materials.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Water reactive metals (e.g. lithium, sodium) and substances (e.g. sulfuric acid, sodium hydroxide) that produce highly exothermic reactions evolving enough heat to ignite nearby combustible materials.

10.5. Incompatible materials

Reacts with most common metals to produce hydrogen. Water reactive substances may produce high levels of heat.

10.6. Hazardous decomposition products

None

SECTION 11: Toxicology

11.1. Information on toxicological effects

Acute toxicity

Oral LD50: > 90 mL/kg (rat)
Inhalation LC50: No information available.
Dermal LD50: No information available.
Other information on acute toxicity: RTECS# ZC0110000

Skin corrosion/irritation: Not applicable

Serious eye damage/eye irritation: Not applicable

Respiratory or skin sensitization: May cause respiratory tract irritation.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

Specific target organ toxicity-single exposure: No information available.

Specific target organ toxicity-repeated exposure: No information available.

Aspiration hazard: No information available.

Additional information: To the best of our knowledge, the chronic toxicity of this substance has not been fully investigated.

SECTION 12: Ecological information

12.1. Ecotoxicity: Not applicable

12.2. Persistence and degradability: Persistent.

12.3. Bioaccumulative potential: Bioaccumulation is not anticipated.

12.4. Mobility in soil: No information available.

12.5. Results of PBT and vPvB assessment: Not applicable for inorganic substances.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Not applicable. If water is contaminated with other chemicals, review federal, provincial and local government requirements prior to disposal.

SECTION 14: Transport information

Land Transport DOT (U.S.)

This chemical is not specifically listed in the US Code of Federal Regulations Title 49 - Transportation.

Sea Transport IMDG

This chemical is not specifically listed in the International Maritime Dangerous Goods (IMDG) Code.

Air Transport IATA

This chemical is not specifically listed in the IATA Dangerous Goods Regulations (DGR).

SECTION 15: Regulatory information

OSHA Hazards: CAS #7732-18-5 does not meet the criteria for hazardous material, as defined by 29 CFR 1910.1200.

SARA 302 Extremely Hazardous Substances: This material contains Water (CAS# 7732-18-5), which is not subject to the reporting requirements.

SARA 313 (TRI reporting): This material contains Water (CAS# 7732-18-5), which is not subject to the reporting requirements of Section 313 of SARA Title III.

SARA 311/312 Hazardous Chemicals: Not applicable.

Massachusetts Right-To-Know Substance List: CAS# 7732-18-5 is not listed.

Pennsylvania Right-To-Know Hazardous Substances: CAS# 7732-18-5 is not listed.

New Jersey Worker and Community Right-To-Know Components: CAS# 7732-18-5 is not listed.

California Proposition 65: CAS# 7732-18-5 is not subject to this act.

Inventory Status:

Canada DSL/NDSL Inventory CAS# 7732-18-5 is listed.

US TSCA Inventory List: CAS# 7732-18-5 is listed.

EINECS, ELINCS or NLP: CAS# 7732-18-5 is listed, EC# 231-791-2.

SECTION 16: Other information

Full text of H-Statement(s) and P-Statement(s)

Not applicable.

Canadian Carcinogenicity hazard class: Not applicable.
PHNOC hazard class: Not applicable.
HHNOC hazard class: Not applicable.
Biohazardous Infectious Materials hazard class: Not applicable.

NFPA Rating:

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard: Not applicable

DISCLAIMER

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our 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 its Affiliates shall not be held liable for any damage resulting from handling.