

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Version 6.2

Print Date 2020/12/08

Revision date / valid from 2020/12/08

MSDS code: MDWH200

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

1.1. Product identifier

Trade name : DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER
Substance name : Water
CAS-No. : 7732-18-5
EC-No. : 231-791-2
REACH Status : Substance is exempted from registration obligations according to Article 2 (7) (a) (Annex IV, see CAS No) of the Regulation (EC) No 1907/2006

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

Use of the Substance/Mixture : Consumer use, Professional use, industrial use
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
Alpha House, Lawnswood Business Park
GB LS16 6QY Leeds
Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Human Health : See section 11 for toxicological information.
Physical and chemical hazards : See section 9/10 for physicochemical information.
Potential environmental effects : See section 12 for environmental information.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Water	CAS-No. : 7732-18-5 EC-No. : 231-791-2	100

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice : No special precautions required.
If inhaled : No special precautions required.
In case of skin contact : No special precautions required.
In case of eye contact : No special precautions required.
If swallowed : After swallowing of large quantities induce vomiting.

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

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : The intake of larger amounts of the product is dangerous since cell damage may occur due to osmotic effects. See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : None known.

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.

Further advice : No special precautions required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : No special precautions required.

6.2. Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Retain and dispose of contaminated wash water.

Further information : No conditions to be specially mentioned.

6.4. Reference to other sections

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : No special precautions required.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. The product is not flammable.

Further information on storage conditions : Keep container tightly closed.

Advice on common storage : No special restrictions on storage with other products.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Advice : not required

Hand protection

Advice : During work conditions which include permanent contact of the hands with water (wet work) protective gloves are necessary.
Protective gloves complying with EN 374.
Protective gloves should be replaced at first signs of wear.

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: liquid
Colour	: colourless clear
Odour	: odourless
Odour Threshold	: Not applicable
pH	: 7.00 (20 °C)
Melting point/range	: 0.0 °C
Boiling point/boiling range	: 100 °C
Flash point	: Not applicable
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: 6.1 hPa (0 °C)

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

	12 hPa (10 °C) 23 hPa (20 °C) 123 hPa (50 °C)
Relative vapour density	: no data available
Density	: 1.000 g/cm ³ (3.98 °C) 0.9971 g/cm ³ (25 °C)
Water solubility	: Not applicable
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Explosivity	: Product is not explosive.
Oxidizing properties	: not oxidising

9.2. Other information

Molecular weight	: 18.02 g/mol
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice	: No decomposition if stored and applied as directed.
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10.2. Chemical stability

Advice	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: No information available.
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10.4. Conditions to avoid

Conditions to avoid	: None known.
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10.5. Incompatible materials

Materials to avoid	: Alkali metals, Alkaline earth metals, Substances and mixtures which may react violently with water
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10.6. Hazardous decomposition products

Hazardous decomposition products	: No information available.
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DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Component:	Water	CAS-No. 7732-18-5
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Acute toxicity**Oral**

LD50 : > 89800 mg/kg (Rat)

Inhalation

no data available

Dermal

no data available

Other routes

LD50 : 25000 mg/kg (intravenous;Mouse)

LD50 : 190000 mg/kg (intraperitoneal;Mouse)

Irritation**Skin**

Result : No skin irritation

Eyes

Result : No eye irritation

Sensitisation

Result : not sensitizing

CMR effects**CMR Properties**

Carcinogenicity : Not expected to be carcinogenic.

Mutagenicity : Not expected to be mutagenic.

Teratogenicity : No known significant effects or critical hazards.

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Reproductive toxicity : No toxicity to reproduction

Specific Target Organ Toxicity
Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Aspiration hazard

Not applicable,

SECTION 12: Ecological information
12.1. Toxicity

Component:	Water	CAS-No. 7732-18-5
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Acute toxicity
Fish

: no data available

Toxicity to daphnia and other aquatic invertebrates

: no data available

algae

: no data available

Short-term (acute) aquatic hazard

Result : The product is not classified as dangerous for the environment.

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Study scientifically unjustified.

Chronic toxicity**12.2. Persistence and degradability**

Component:	Water	CAS-No. 7732-18-5
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Persistence and degradability**Persistence**

Result : no data available

Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	Water	CAS-No. 7732-18-5
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Bioaccumulation

Result : Not applicable

12.4. Mobility in soil

Component:	Water	CAS-No. 7732-18-5
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Mobility

Result : The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

12.5. Results of PBT and vPvB assessment

Component:	Water	CAS-No. 7732-18-5
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Results of PBT and vPvB assessment

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Other adverse effects**Data for the product****Additional ecological information**

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

- Product : Can be disposed as waste water, when in compliance with local regulations.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Component:	Water	CAS-No. 7732-18-5
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EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) Annex I : ; The substance/mixture does not fall under this legislation.

Notification status
Water:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	231-791-2
ENCS (JP)	YES	JP
IECSC	YES	
KECI (KR)	YES	KE-35400
NZIOC	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

no data available

SECTION 16: Other information
Abbreviations and Acronyms

BCF bioconcentration factor

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is

DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER

correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.