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**SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006****DISTILLED/DEIONISED/DEMINERALISED/ULTRAPURE WATER**

Version 6.0

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**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

**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****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**

Human Health : See section 11 for toxicological information.  
Physical and chemical : See section 9/10 for physicochemical information.

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hazards

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**

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

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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**

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

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### **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*

Advice : not required

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### *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)

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	12 hPa (10 °C) 23 hPa (20 °C) 123 hPa (50 °C)
Relative vapour density	: no data available
Density	: 1.000 g/cm <sup>3</sup> (3.98 °C) 0.9971 g/cm <sup>3</sup> (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**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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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.

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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**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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#### **Acute toxicity**

##### **Fish**

: no data available

#### **Toxicity to daphnia and other aquatic invertebrates**

: no data available

##### **algae**

: no data available

#### **Acute aquatic toxicity**

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



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Study scientifically unjustified.

### **Chronic toxicity**

#### **12.2. Persistence and degradability**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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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**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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### **Bioaccumulation**

Result : Not applicable

#### **12.4. Mobility in soil**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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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**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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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**

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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**

<b>Component:</b>	<b>Water</b>	<b>CAS-No. 7732-18-5</b>
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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

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<b>BOD</b>	biochemical oxygen demand
<b>CAS</b>	Chemical Abstracts Service
<b>CLP</b>	Classification, Labelling and Packaging
<b>CMR</b>	carcinogenic, mutagenic or toxic to reproduction
<b>COD</b>	chemical oxygen demand
<b>DNEL</b>	derived no-effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>LC50</b>	median lethal concentration
<b>LOAEC</b>	lowest observed adverse effect concentration
<b>LOAEL</b>	lowest observed adverse effect level
<b>LOEL</b>	lowest observed effect level
<b>NLP</b>	no-longer polymer
<b>NOAEC</b>	no observed adverse effect concentration
<b>NOAEL</b>	no observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	occupational exposure limit
<b>PBT</b>	persistent, bioaccumulative and toxic
<b>PNEC</b>	predicted no-effect concentration
<b>STOT</b>	specific target organ toxicity
<b>SVHC</b>	substance of very high concern
<b>UVCB</b>	substance of unknown or variable composition, complex reaction products or biological materials
<b>vPvB</b>	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 correct to our knowledge at the date of its revision. The information given only describes the products with

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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.