SAFETY DATA SHEET
WATER, DISTILLED

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

1.1. Product identifier
Product name          WATER, DISTILLED
Product number        2654
CAS number            7732-18-5
EC number             231-791-2

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses        Laboratory reagent.
Uses advised against   No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier               Reagent Chemical Services
                        11b - 13 Aston Fields Road
                        Whitehouse Industrial Estate
                        Runcorn
                        Cheshire WA7 3DL
                        T: 01928 716903 (08.30 - 17.00)
                        F: 01928 716425
                        E: info@reagent.co.uk

1.4. Emergency telephone number
Emergency telephone    OHES Environmental Ltd 24-7
                        Tel. 0333 333 9939 (24 hour)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards       Not Classified
Health hazards          Not Classified
Environmental hazards   Not Classified

2.2. Label elements
EC number              231-791-2
Hazard statements      NC Not Classified

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients
3.2. Mixtures

Composition comments

This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special treatment required.

Inhalation

Not applicable. Unlikely route of exposure as the product does not contain volatile substances.

Ingestion

Not relevant.

Skin contact

No special treatment required.

Eye contact

No special treatment required.

Protection of first aiders

No specific requirements are anticipated under normal conditions of use.

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

General information

The product is considered to be a low hazard under normal conditions of use.

Inhalation

No adverse effects known.

Ingestion

No adverse effects known.

Skin contact

No adverse effects known.

Eye contact

No adverse effects known.

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

Notes for the doctor

Treat symptomatically.

Specific treatments

No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards

When handled correctly, undamaged units represent no danger.

Hazardous combustion products

No known hazardous decomposition products.

5.3. Advice for firefighters

Protective actions during firefighting

Not relevant. No specific requirements are anticipated under normal conditions of use.

Special protective equipment for firefighters

Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Follow precautions for safe handling described in this safety data sheet.
WATER, DISTILLED

6.2. Environmental precautions
Environmental precautions  Not regarded as dangerous for the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up  No specific clean-up procedure recommended. No specific requirements are anticipated under normal conditions of use.

6.4. Reference to other sections
Reference to other sections  For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on general occupational hygiene  No specific requirements are anticipated under normal conditions of use.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions  Store at room temperature. Protect from freezing and direct sunlight.
Storage class  Unspecified storage.

7.3. Specific end use(s)
Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Ingredient comments  No exposure limits known for ingredient(s).

8.2. Exposure controls
Protective equipment
Appropriate engineering controls  No specific ventilation requirements.
Eye/face protection  No specific eye protection required during normal use. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection  No specific requirements are anticipated under normal conditions of use.
Other skin and body protection  Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures  Good personal hygiene procedures should be implemented.
Respiratory protection  No specific requirements are anticipated under normal conditions of use. Respiratory protection not required.
Environmental exposure controls  Not regarded as dangerous for the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance  Liquid.
WATER, DISTILLED

Colour
- Colourless.

Odour
- Odourless.

pH
- pH (concentrated solution): Approx. 7

Melting point
- 0°C

Initial boiling point and range
- 100°C @ 760 mm Hg

Flash point
- Not determined. Scientifically unjustified.

Evaporation rate
- Technically not feasible.

Flammability (solid, gas)
- Technically not feasible.

Upper/lower flammability or explosive limits
- Not applicable.

Vapour pressure
- Not determined.

Relative density
- Approx. 1.00 @ @ 20°C

Solubility(ies)
- Completely soluble in water.

Partition coefficient
- Not determined.

Auto-ignition temperature
- Not applicable. Scientifically unjustified.

Decomposition Temperature
- Not determined. Scientifically unjustified.

Viscosity
- Not determined.

Explosive properties
- Not considered to be explosive.

Explosive under the influence of a flame
- Not considered to be explosive.

Oxidising properties
- Does not meet the criteria for classification as oxidising.

9.2. Other information
- None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
- There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
- Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
- No potentially hazardous reactions known.

10.4. Conditions to avoid
Conditions to avoid
- There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials
Materials to avoid
- No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decomposition products

Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard

Based on available data the classification criteria are not met.

General information

No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
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Ingestion
No harmful effects expected from quantities likely to be ingested by accident.

Skin contact
Skin irritation should not occur when used as recommended.

Eye contact
No adverse effects known.

Route of entry
Not specific

Target organs
No specific target organs known.

Medical symptoms
No specific symptoms known.

SECTION 12: Ecological Information

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity
Toxicity
Based on available data the classification criteria are not met.

12.2. Persistence and degradability
Persistence and degradability
Not applicable.

12.3. Bioaccumulative potential
Bioaccumulative potential
Bioaccumulation is unlikely.

Partition coefficient
Not determined.

12.4. Mobility in soil
Mobility
The product is water-soluble and may spread in water systems. The product is non-volatile.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects
Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods
Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
WATER, DISTILLED

Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

National regulations
Health and Safety at Work etc. Act 1974 (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions on use are known for this product.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

SECTION 16: Other information
WATER, DISTILLED

**Abbreviations and acronyms used in the safety data sheet**

- **ADR**: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- **ADN**: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- **RID**: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- **IATA**: International Air Transport Association.
- **ICAO-TI**: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
- **IMDG**: International Maritime Dangerous Goods.
- **CAS**: Chemical Abstracts Service.
- **ATE**: Acute Toxicity Estimate.
- **LC₅₀**: Lethal Concentration to 50 % of a test population.
- **LD₅₀**: Lethal Dose to 50% of a test population (Median Lethal Dose).
- **EC₅₀**: 50% of maximal Effective Concentration.
- **PBT**: Persistent, Bioaccumulative and Toxic substance.
- **vPvB**: Very Persistent and Very Bioaccumulative.
- **DNEL**: Derived No Effect Level.
- **DMEL**: Derived Minimal Effect Level.
- **PNEC**: Predicted No Effect Concentration.

**Classification procedures according to Regulation (EC) 1272/2008**


**Training advice**

Read and follow manufacturer's recommendations.

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**Revision**

3

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Approved.