

USP Reagent Water Rw – Muriatic Preserved Solution

Section 1. Identification of Product and Company

1.1 Identification of substance or preparation: USP Reagent Water Rw

Synonyms: Di Hydrogen Monoxide, Aqua

1.2 Product Application: This MSDS provides Health and Safety information from any Water (muriatic preserved) component of the following vials or kits:

| Altus Science Part Number | Product Name/Description/Range |
|---------------------------|--|
| (K) = Kit | |
| A-5020(K), A-5021 | From USP Reagent Water Rw – Muriatic preserved |

1.3 Company/Undertaking Identification: Altus Science Limited

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Section 2. Hazards Identification

2.1 Hazard Summary:

Physical hazards: Not classified for physical hazards **Health hazards:** Not classified for health hazards

Environmental hazards: Not classified for hazards to the environment

2.2 Label elements:

Contains: Hydrochloric acid, Water

Supplemental label information: Not applicable

2.3 Other hazards: Not assigned

Section 3. Composition/Information on Ingredients

3.1 Mixtures:

Chemical description: USP Reagent Water Rw

| Compound Name | CAS-No. | EC No. | Concentration | CLP Classification - Reg No. |
|-------------------|-----------|-----------|---------------|-----------------------------------|
| Water | 7732-18-5 | 231-791-2 | ≥99.991% | Not applicable |
| Hydrochloric acid | 7647-01-0 | 231-595-7 | ≤0.009% | Skin Corr. 1B;H314. STOT E 3;H335 |



Section 4. First Aid Measures

4.1 Description of first aid measures:

Skin Contact: Wash skin with plenty of soap and water **Eye Contact:** Flush eyes with water as a precaution

Ingestion: If the victim is conscious, give 1-2 glasses of water

Inhalation: No treatment required

- 4.2 Most important symptoms and effects, both acute and delayed: Not applicable
- 4.3 Indication of any immediate medical attention and special treatment needed: Not available

Section 5. Fire Fighting Measures

5.1 Extinguishing media:

Suitable Extinguishing Media: This product does not represent a fire hazard since it contains a significant

proportion of water

Unsuitable Extinguishing Media: None

5.2 Special hazards arising from the substance or mixture: None known

5.3 Advice for fire-fighters:

Special protective equipment for fire-fighters: No special protective equipment required

Special fire-fighting procedures: Not applicable

5.4 Further information: No data available

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Not required

For emergency responders: Use personal protection recommended in Section 8 of the MSDS

- **6.2 Environmental precautions:** No special environmental precautions required
- 6.3 Methods and materials for containment and clean up:
 - Spills of the product could present a significant slip hazard depending on quantity and surface type
 - Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements
 - Contain and recover by physical means
 - Clean small spills by diluting with sufficient quantities of water
- **6.4 Reference to other sections:** Please refer to Section 8 for further information

Section 7. Handling and Storage

- 7.1 Precautions for safe handling: No special requirements
- **7.2 Conditions for safe storage, including any incompatibilities:** Reasonable and safe chemical storage. Store in a closed container in a well ventilated storage area, away from incompatible materials
- 7.3 Specific end use(s): For professional and industrial users only



Section 8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational exposure limits - UK EH40 Workplace Exposure Limits (WEL's):

| Components | Туре | Value | Form |
|-------------------------------|------|--------|-----------------------|
| Hydrochloric acid (7647-01-0) | STEL | 8mg/m3 | Gas and aerosol mists |
| | TWA | 2mg/m3 | Gas and aerosol mists |

8.2 Exposure controls:

Biological Limit Values: No biological exposure limits noted for the ingredient(s)

Recommended monitoring procedures: Not available Environmental exposure controls: Not applicable Appropriate engineering controls: None recommended

Personal protective equipment: Eye/face protection: Safety goggles

Skin protection: No special protective equipment required

Body protection: None required **Respiratory protection:** Not required

Section 9. Physical and Chemical Properties

9.1 Physical and Chemical Properties:

| Characteristic | ; | Description | |
|----------------------|-------------------|----------------------------|--|
| Appearance | Physical State | Liquid | |
| Appearance | Colour | Colourless | |
| Odour | | None | |
| Odour Thresh | old | Not available | |
| pH (Concentr | ated product) | 6.5 | |
| Melting point | freezing point | 0°C | |
| Initial boiling | point and boiling | 100°C | |
| range | | 100 0 | |
| Flash point | | >100°C Pensky Martens (CC) | |
| Evaporation r | ate | 1 (Water=1) | |
| Flammability | | Not available | |
| Flammable Li | mit - lower | Not available | |
| Flammable Li | mit - upper | Not available | |
| Vapour press | ure | 18mm Hg at 21°C | |
| Vapour densi | ty | 1 | |
| Relative dens | ity | 1 | |
| Water solubil | ity | Completely soluble | |
| Partition coef | ficient (n- | Not available | |
| Octanol/wate | r) | | |
| Auto-ignition | temperature | Not available | |
| Decomposition | on temperature | Not available | |
| Viscosity | | Not available | |
| Explosive pro | perties | Not applicable | |
| Oxidizing pro | perties | Not applicable | |

9.2 Other safety information: No relevant additional information available



Section 10. Stability and Reactivity

10.1 Reactivity: Not available

10.2 Chemical Stability: Material is stable under normal conditions

10.3 Possibility of hazardous reactions: Hazardous polymerisation does not occur

10.4 Conditions to avoid: No special requirement

10.5 Incompatible materials: None known

10.6 Hazardous decomposition products: None known

Section 11. Toxicological Information

11.1 Information on toxicological effects:

| Product/Component | LD50 Oral | LD50 Dermal |
|--------------------------------|------------------|-------------------|
| USP Reagent Water Rw (Mixture) | Rat:>5000mg/kg | Rabbit:>5000mg/kg |
| Hydrochloric acid (7647-01-0) | Rabbit: 900mg/kg | Mouse: 1449mg/kg |

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Information on likely routes of exposure:

Ingestion: None known

Inhalation: Not expected to cause respiratory effects

Skin contact: Prolonged or repeated contact may cause transient irritation

Repeated exposure may cause skin dryness or cracking

Eye contact: Prolonged or repeated contact may cause transient irritation

Signs and symptoms of Exposure: Not available

Mixture versus substance information: Not available

Additional information: Not available

Section 12. Ecological Information

12.1 Toxicity:

| Components | Test results |
|-------------------------------|---|
| Hydrochloric acid (7647-01-0) | LC50 Western mosquitofish: 282mg/l 96 hours |

12.2 Persistence and degradability: No data available

12.3 Bio accumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available

12.6 Other adverse effects: Not available

12.7 Summary: The product is not classified as dangerous for the environment. The evaluation of the environmental hazards is based on the concentration limits set out in directive 1999/45/EC



Section 13. Disposal Considerations

13.1 Waste treatment methods:

Product - According to Controlled Waste Regulations:

European Waste Code (EWC) recommendation: 16 03 04

16 Wastes not otherwise specified in the list

16 03 Off-specification batches and unused products

16 03 04 Inorganic wastes

Depending on the origin and state of waster, other EWC numbers may be applicable too

Contaminated packaging - According to Controlled Waste Regulations:

European Waste Code (EWC) recommendation: 15 01 02

15 Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified

15 01 Packaging (including separately collected municipal packaging waste)

15 01 02 Plastic packaging

15 01 06 Glass packaging

Depending on the origin and state of the waste, other EWC numbers may be applicable too

Section 14. Transport Information

14.1 ADR: Not regulated as dangerous goods

14.2 RID: Not regulated as dangerous goods

14.3 ADN: Not regulated as dangerous goods

14.4 IATA: Not regulated as dangerous goods

14.5 IMDG: Not regulated as dangerous goods

14.6 Special precautions for user: No data available

Section 15. Regulatory Information

- 15.1 Safety, health and environment regulations/legislation specific for the substance or mixture: No data available
- 15.2 Chemical safety assessment: No data available
- **15.3 Other regulations:** This product does not need to be labelled in accordance with EC directives or respective national laws.

Section 16. Other Information

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 present state of knowledge and is applicable to the product with regard to appropriate safety precautions. Altus Science Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. Please refer to Terms and Conditions for further information of sale.



Abbreviations

- ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road
- RID International Rule for Transport of Dangerous Substances by Railway
- ADN International Carriage of Dangerous Goods by Inland Navigation
- IATA International Air transport Association
- IMDG International Maritime Dangerous Goods Code
- WEL Workplace Exposure Limit
- TWA Time weighted Average
- STEL Short-term Exposure Limit
- vPvB Very persistent, very Bio accumulative
- LC50: Lethal Concentration 50%
- H314: Causes severe skin burns and eye damage
- H335: May cause respiratory irritation