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HYDROCHLORIC ACID 0.1M SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Hydrochloric acid 0.1M solution

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

To be used as a sample preservative for analytical testing.

1.3. Details of the supplier of the safety data sheet:



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Not classified as hazardous according to

2.2. Label elements

Not classified as hazardous according to

2.3. Other hazards – None.

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Water	None.	99.6%
Hydrochloric acid	H314, H335.	0.4%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, get medical aid.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Use extinguishing media most appropriate for the surrounding fire.

5.2. Special hazards arising from the substance or mixture: Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages.

6.2. Environmental precautions: No special measures necessary.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Collect into a container, close lid.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Wash thoroughly after handling. Avoid contact with skin and eyes.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Do not use metal containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: TWA 1ppm. STEL 5 ppm. UK. EH40.

8.2. Exposure controls: Wear appropriate protective eyeglasses. Wear appropriate protective gloves such as nitrile and clothing to prevent skin exposure.

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Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid.

Colour: Clear: colourless.

Odour: None.

pH: Not available

Vapour Pressure & Density: Not available.

Solubility: Soluble in water.

9.2. Other information

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Metals. Strong oxidising agents.

10.6. Hazardous decomposition products

See section 5.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

No data available.

Not listed as a carcinogen.

Section 12 – Ecological Information

12.1. Toxicity: No data available.

12.2. Persistence and degradability: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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12.6. Other adverse effects: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: 1789.

14.2. UN proper shipping name: HYDROCHLORIC ACID.

14.3. Transport hazard class(es): 8.

14.4. Packing group: III.

14.5. Environmental hazards: Not regulated.

14.6. Special precautions for user: Tunnel restriction code (E).

Section 15 – Regulatory Information

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

CDG (Carriage of Dangerous Goods) Regulations

CLP (Chemicals, Labelling and Packaging) Regulations.

CoSHH (Control of Substances Hazardous to Health) regulations

Hazardous Waste Regulations

PPE Regulations

Workplace Exposure Limits EH40

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information:

Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:

See document header.