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MERCURY PRESERVATIVE (TYPE 2)				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Mercury preservative (type 2).

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

Acute toxicity, Oral (Category 3), H301

Skin corrosion (Category 1B), H314

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Carcinogenicity (Category 1B), H350

2.2. Label elements

Pictograms



Signal word: Danger

Hazard statement(s)

H301 Toxic if swallowed

H314 Causes severe skin burns and eye damage.

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H335 May cause respiratory irritation.

H350 May cause cancer

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements: none.

Reduced labelling for packages where contents do not exceed 125ml is not applicable.

2.3. Other hazards - none

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Hydrochloric acid 32-38%	H314, H335.	99%
Potassium bromate	H271, H301, H350.	0.5%
Potassium bromide	H319.	0.4%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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.

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Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Substance is non-combustible; use agent most appropriate to extinguish surrounding fire.

5.2. Special hazards arising from the substance or mixture: Not flammable, but reacts with most metals to form flammable hydrogen gas.

5.3. Advice for firefighters: As in any fire, wear a self-contained breathing apparatus and full protective gear. Water runoff can cause environmental damage. Vapours may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

Section 6 – Accidental Release Measures

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

6.2. Environmental precautions: Prevent spills from entering waterways and sewers.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Use neutralizing agents if available. Collect into a container, close lid. Dispose as hazardous waste.

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. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep away from strong bases and metals.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Do not store in metal containers. Store away from alkalis. Separate from oxidizing materials.

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: Under EH40 (UK) STEL 5ppm, TWA 10ppm.

8.2. Exposure controls: Eyes: Wear chemical splash goggles and/or face shield. Skin: Wear appropriate acid resistant gloves, apron, and/or clothing. Clothing: Wear appropriate 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

Appearance: clear, colourless to pale yellow

Odour: strong, pungent

pH: 0.01

Vapour Density: 1.27 (air=1)

Viscosity: Not available.

Boiling Point: 110 deg C approx

Freezing/Melting Point: -30 deg C approx

Decomposition Temperature: Not available.

Solubility: Soluble.

Specific Gravity/Density: 1.19 (38%)

Molecular Formula: HCl.H₂O

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

Excess heat.

10.5. Incompatible materials

Metals, strong oxidizing agents, strong reducing agents, bases, acetic anhydride, alcohols, amines, sulphuric acid, vinyl acetate, epoxides (e.g. butyl glycidyl ether), chlorosulfonic acid, carbides, beta-propiolactone, ethyleneimine, propylene oxide, lithium silicides, 2-aminoethanol, 1,1-difluoroethylene, magnesium boride, mercuric sulphate, aldehydes, cyanides, sulphides, phosphides.

10.6. Hazardous decomposition products

Hydrogen chloride gas, chlorine, hydrogen gas.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

Hydrochloric acid

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Animal Toxicity

Oral: Rabbit LD50 900 mg/kg

Dermal:

Rabbit LD50 >5,010 mg/kg

Inhalation: Human LCLO 3,000 ppm (5 min)

Human LCLO 1,300 ppm (30 min)

Rat LC50 3,124 ppm (1 hr)

Mouse LC50 1,108 ppm (1 hr)

LC50 - Air concentration that is lethal to 50% of a given species in a given period of time.

LCLO - Lowest air concentration that is lethal to a given species in a given period of time.

LDLO - Lowest lethal dose in a given species by a given route of exposure.

LD50 - Dose that is lethal to 50% of a given species by a given route of exposure.

Carcinogenicity: This product is not classified as a carcinogen.

Potassium Bromate is a suspected carcinogen.

Section 12 – Ecological Information

12.1. Toxicity: Fish: Bluegill/Sunfish: 3.6 mg/L; 48Hr; Lethal (unspecified) Fish: Bluegill/Sunfish: LC50; 96 Hr; pH 3.0-3.5 No data available.

12.2. Persistence and degradability: Will exhibit extensive evaporation from soil surfaces. Upon transport through the soil, hydrochloric acid will dissolve some of the soil materials (especially those with carbonate bases) and the acid will neutralize to some degree.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: No data available.

12.6. Other adverse effects: No data available.

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, solution.

14.3. Transport hazard class(es): 8.

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14.4. Packing group: II.

14.5. Environmental hazards: No.

14.6. Special precautions for user: As per section 7.

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.