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MANGANOUS CHLORIDE SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Manganous chloride 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

Acute toxicity (oral, dermal, inhalation), category 4

Specific target organ toxicity following repeated exposure, category 2

2.2. Label elements

Pictograms



Signal word: None.

Hazard statement(s)

H302 Harmful if swallowed

H373 May cause damage to organs (Brain) through prolonged or repeated exposure.

Precautionary statement(s)

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

P314 Get medical advice/ attention if you feel unwell.

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Supplemental Hazard Statements:
None.

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

Pictograms



Signal word: None.

2.3. Other hazards – None.

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Manganese chloride	H302, H373.	45%
Water	None.	55%

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. 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. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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:

Notes to Physician: Treat symptomatically and supportively. Persons with impaired respiratory function or anaemia may be at increased risk to the hazards associated with this substance.

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Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

5.2. Special hazards arising from the substance or mixture: During fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.3. Advice for firefighters: No data available.

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. Dispose of non-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. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

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.

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: This substance has no WEL under EH40.

8.2. Exposure controls: Protect skin and eyes at all times. Wear nitrile gloves and protective eyewear.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Clear liquid

Appearance: light pink

Odour: odourless

pH: Not available.

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Vapour Pressure: Not available.
 Vapour Density: Not available.
 Evaporation Rate: Not available.
 Viscosity: Not available.
 Boiling Point: Not available.
 Freezing/Melting Point: Not available.
 Decomposition Temperature: Not available.
 Solubility: Not available.
 Specific Gravity/Density: Not available.
 Molecular Formula: Solution
 Molecular Weight: Not available.

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

Strong reducing agents, zinc, potassium, hydrogen peroxide, and sodium.

10.6. Hazardous decomposition products

Hydrogen chloride, irritating and toxic fumes and gases, oxides of manganese.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

The U.S. EPA stated that epidemiological studies of inorganic manganese compounds in humans indicate effects on the respiratory system at levels below 1 mg/m³.

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: No data available.

12.6. Other adverse effects: No data available.

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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: Not regulated.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class(es): Not regulated.

14.4. Packing group: Not regulated.

14.5. Environmental hazards: Not regulated.

14.6. Special precautions for user: Not regulated.

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.