

SAFETY DATA SHEET
MANGANESE REAGENT A

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Revision No: 1

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: MANGANESE REAGENT A

Product code: RP5830

Use / description of product: Corrosive. Liquid.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: AMMONIA SOLUTION...50% 10-30%

CAS: 1336-21-6

EINECS: 215-647-6

[C] R34; [N] R50;

Ingredient 2: AMMONIUM CHLORIDE <10%

CAS: 12125-02-9

EINECS: 235-186-4

[Xn] R22; [Xi] R36;

3. HAZARDS IDENTIFICATION

Main hazards: Causes burns.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate.

Eye contact: There may be pain and redness. The eyes may water profusely. Corneal burns may occur.

Ingestion: Corrosive burns may appear around the lips. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. Nausea and stomach pain may occur. Headaches or general malaise may result.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. Nausea and stomach pain may occur. There may be vomiting.

4. FIRST AID MEASURES (ACTION)

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: If conscious, give 1 pint of water to drink immediately. Transfer to hospital as soon as

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possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water. Carbon dioxide. Dry chemical powder. Foam Vapourising Liquids.

Exposure hazards: In combustion emits toxic fumes. Ammonia and air in a fire can detonate.

Protection of fire-fighters: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions: Do not allow large quantities to enter local drainage systems

Clean-up procedures: Neutralise with dilute hydrochloric acid testing with litmus paper periodically. Wash down the drain with large amounts of water. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be used in handling.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

TWA (8 hr exposure limit): 17 mg/m³ (Ammonia)

STEL (15 min exposure limit): 24 mg/m³ (Ammonia)

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Pungent

Viscosity: Non-viscous

Oxidising: Non-oxidising (by EC criteria)

Evaporation rate: Moderate

Solubility in water: Miscible in all proportions

pH: 11

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong acids.

Haz. decomp. products: In combustion emits toxic fumes of nitrogen oxides.

[cont...]

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Ingredient 1: AMMONIA SOLUTION...50%
ORL RAT LD50 350mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.
Persistence and degradability: Biodegradable.
Bioaccumulative potential: No bioaccumulation potential.
Other adverse effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Neutralise with dilute hydrochloric acid. Flush liquors to drain, local regulations permitting, or send to a waste water treatment plant.
Disposal of packaging: Dispose of as normal industrial waste.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 2672
ADR Class: 8
Hazard ID no: 80
Labelling: 8
Shipping name: AMMONIA SOLUTION WITH <35% BUT >10% AMMONIA

IMDG / IMO

UN no: 2672
Class: 8
Packing group: III
EmS: 8-06
Marine pollutant: NO
Labelling: 8

IATA / ICAO

UN no: 2672
Class: 8
Packing group: III
Packing instructions: 813
Quantity: 60 L
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.

Risk phrases: R34: Causes burns.



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Safety phrases: S2: Keep out of the reach of children.
S7: Keep container tightly closed.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Risk phrases used in s.2: R34: Causes burns.
R50: Very toxic to aquatic organisms.
R22: Harmful if swallowed.
R36: Irritating to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.