

MATERIAL SAFETY DATA SHEET

Revision Date: 01.09.2025

1. Identification

Product Name: Meglumine

CAS No: 6284-40-8

Synonym: N-Methyl-D-glucamine

Recommended Use: Laboratory chemicals and pharmaceuticals.

Details of the supplier of the safety data sheet

Company: Chemignition Laboratory, India.

Emergency Contact detail: www.chemignition.com

2. Hazard(s) identification

GHS Classification:

Not classified as hazardous under GHS.

Label Elements:

Signal Word: None

Hazard Statements: Not expected to be hazardous under normal handling conditions.

Precautionary Statements: Avoid dust formation, Use with adequate ventilation and Avoid contact with eyes and skin

3. Composition/Information on Ingredients

Substance: Meglumine

Purity: $\geq 99\%$

Chemical Formula: C₇H₁₇NO₅

Concentration: $\geq 98\%$

4. First-Aid Measures

Inhalation: Move to fresh air. If breathing is difficult, seek medical attention.

Skin Contact: Wash thoroughly with soap and water. Seek medical advice if irritation occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present.

Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Seek medical advice.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam, water spray

Special Hazards: Emits toxic fumes under fire conditions (carbon oxides, nitrogen oxides).

Protective Equipment: Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal Precautions: Use PPE. Avoid breathing vapors.

Environmental Precautions: Prevent entry into sewers or water systems.

Cleanup Methods: Absorb with inert material and place in suitable container.

7. Handling and storage

Handling: Use only in well-ventilated areas. Avoid inhalation, contact with skin and eyes.

Storage: Storage: Store in tightly closed container in a cool, dry, and well-ventilated place.

Protect from moisture.

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation required.

Personal Protective Equipment:

Respiratory: NIOSH approved respirator if exposure limits are exceeded.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or face shield.

Body: Lab coat or protective clothing.

9. Physical and Chemical Properties

Appearance: White crystalline powder or granules

Odor: No information available

Melting Point: ~128–132 °C

Solubility: Freely soluble in water

10. Stability and Reactivity

Reactive Hazard: None known, based on information available

Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible products.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None under normal use conditions

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing.

11. Toxicological Information

Acute Toxicity: Low oral toxicity (LD50 not established, considered safe at normal exposure).

Skin/Eye Irritation: May cause mild irritation.

Sensitization: Not known to cause sensitization.

Chronic Effects: No known adverse chronic effects.

12. Ecological Information

Ecotoxicity: Do not empty into drains.

Persistence and Degradability: Biodegradable.

Bioaccumulation/ Accumulation: No information available.

Mobility: No information available.

13. Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a Hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

DOT: Not regulated

TDG: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

15. Regulatory Information

Not classified as hazardous under GHS, OSHA, or EU CLP.

16. Other Information

Prepared By: Chemignition Laboratory

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, Transportation, disposal and release and is not to be considered a warranty or quality specification. The information Relates only to the specific material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text.

End of MSDS