

Material Safety Data Sheet (MSDS)

Product Name: Choline Chloride 60% Feed Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Product Identification

- Product Name: Choline Chloride 60% Feed Grade
- Synonyms: 2-Hydroxy-N,N,N-trimethylethanaminium chloride
- CAS Number: 67-48-1
- EC Number: 200-677-6

2. Composition / Information on Ingredients

- Choline Chloride: 60%
- Carrier / Inert Material: 40%

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous under normal handling conditions.
- **Potential Health Effects:**

- **Inhalation:** May cause mild irritation of respiratory tract.
- **Skin Contact:** Non-irritating in general, may cause mild irritation on prolonged contact.
- **Eye Contact:** May cause mild irritation.
- **Ingestion:** Low toxicity; large doses may cause nausea or gastrointestinal discomfort.

4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if symptoms develop.

5. Firefighting Measures

- **Extinguishing Media:** Water spray, foam, dry chemical, or CO₂.
- **Special Hazards:** May release toxic gases if heated to decomposition.
- **Protective Equipment:** Firefighters should wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment (gloves, mask, goggles).
- **Environmental Precautions:** Prevent entry into water bodies or soil.
- **Cleanup Methods:** Sweep up and collect into suitable containers for disposal. Avoid generating dust.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use in well-ventilated area.
- **Storage:** Store in a cool, dry, well-ventilated place, away from incompatible materials (strong oxidizers). Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use with adequate ventilation.
- **Personal Protective Equipment:**
 - **Respiratory:** Dust mask if exposure limits exceeded.
 - **Hands:** Protective gloves.
 - **Eyes:** Safety goggles.
 - **Clothing:** Protective clothing to avoid prolonged skin contact.

9. Physical and Chemical Properties

- Appearance: White to off-white crystalline powder
- Odor: Slight fishy odor
- pH: 4.5 – 5.5 (1% solution)
- Melting Point: 302–304 °C (decomposes)
- Solubility: Soluble in water
- Specific Gravity: 1.2–1.3

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Excessive heat, moisture, strong oxidizers.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** May release toxic gases such as HCl upon heating.

11. Toxicological Information

- **Acute Toxicity:** Low; oral LD₅₀ (rat) > 3500 mg/kg
- **Chronic Effects:** No known chronic effects under normal use

- **Irritation:** Mild eye and skin irritant
 - **Carcinogenicity / Mutagenicity:** Not classified as carcinogenic or mutagenic
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12. Ecological Information

- **Ecotoxicity:** Low; not expected to be harmful to aquatic life at normal concentrations.
 - **Persistence and Degradability:** Biodegradable
 - **Bioaccumulation:** Low potential
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13. Disposal Considerations

- Dispose of according to local, regional, and national regulations.
 - Avoid release to the environment.
 - Container residues should be treated as chemical waste.
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14. Transport Information (Detailed)

- **UN Number:** Not classified as dangerous goods (for road, air, or sea transport).
- **UN Proper Shipping Name:** Choline Chloride 60% Feed Grade
- **Transport Hazard Class(es):** Not applicable; not classified as hazardous
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not considered environmentally hazardous under normal transport.
- **Special Precautions for User:**
 - Avoid moisture; handle containers carefully to prevent spills.
 - Use appropriate personal protective equipment during loading/unloading.
 - Ensure good ventilation in transport vehicles.
 - Store separately from strong oxidizers or acids.
 - Check local and international regulations before transporting large quantities.
- **Transport Mode Details:**

- **Road (ADR/RID):** Not regulated
- **Air (IATA/ICAO):** Not regulated
- **Sea (IMDG):** Not regulated

15. Regulatory Information

- Complies with Indian Feed Additive regulations.
- Not classified as hazardous under GHS.
- Ensure compliance with local environmental and safety regulations.

16. Other Information

- MSDS prepared based on available information and supplier data.
- The information is believed to be accurate but not guaranteed.
- Users should verify suitability for their specific applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.