



Material Safety Data Sheet

Melamine MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Melamine](#)
- 1.2. Description: Melamine is a trimer of cyanamide manufactured through chemical synthesis.
- 1.3. Chemical Formula: C₃H₆N₆
- 1.4. Molecular weight: 126.12
- 1.5. CAS #: 108-78-1
- 1.6. EINECS #: 203-615-4
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as additive in special plastics manufacturing

2. Composition

- 2.1. Melamine: Not Applicable
- 2.2. Hazardous impurities: Negative

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White powder
- 3.3. Odor: Odorless.
- 3.4. pH: 7.5-9.5
- 3.5. Melting point/range: 350-358 ° C
- 3.6. Boiling point: Not available
- 3.7. Bulk density: 1.573g/cm³
- 3.8. Solubility: Partially soluble in cold water.

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, cyanide fumes, nitrogen.
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong oxidizing agents; strong acids.

5. Handling/Storage

- 5.1. Storage: kept in dark, dry and cool place, in sealed container
- 5.2. Handling precaution: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

6. Exposure Control

- 6.1. Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Melamine need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Melamine is Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).
- 7.2. Contact with eyes: Causes eye irritation.
- 7.3. Contact with skin: Prolonged and/or repeated contact may cause irritation and/or dermatitis.
- 7.4. Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
- 7.5. Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
- 8.2. Contact with skin: Wash with soap and water- get medical attention if irritation occurs.
- 8.3. 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.
- 8.4. Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

9. Fire and Explosion Data

- 9.1. General information: May be combustible at high temperature.
- 9.2. Flash point: CLOSED CUP: Higher than 93.3 ° C (200 ° F).
- 9.3. Ignition control: Avoid Daidzein ignition sources Melamine dust might be generated.
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not available
- 9.6. Spills/Leaks: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. Melamine is fully degradation biodegradable. The products of degradation are less toxic than the product itself

12. Other Information

- 12.1. This Safety Data Sheet of Melamine is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

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