



## MATERIAL SAFETY DATA SHEET

# MELAMINE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name / Synonyms</b>	: Melamine / 2,4,6-Triamino-1,3,5-Triazine
<b>Formula</b>	: C <sub>3</sub> N <sub>6</sub> H <sub>6</sub>
<b>Formula Weight</b>	: 126.12
<b>CAS Number</b>	: 108-78-1

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

<b>Chemical Ingredients (%) Melamine</b>	: 99.8% min.
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### 3. HAZARDS IDENTIFICATION

No hazard, in normal industrial use.

### 4. FIRST AID MEASURES

<b>Eye contact</b>	: Flush eyes with water for at least 15 minutes. Get medical attention.
<b>Skin contact</b>	: Remove clothing. Flash skin with plenty of water.
<b>Inhalation</b>	: Remove to fresh air.
<b>Ingestion</b>	: Immediately flush mouth. Induce vomiting by giving water or placing finger in the back of throat.

### 5. FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	: Flameproof Carbon dioxide and ammonia can be formed at more than the melting point.
<b>Extinguishing Media</b>	: Water, foam or carbon dioxide.
<b>Fire Fighting Instructions</b>	: Use plenty of water or foam when fighting fires. Wearing protective equipment, extinguish from windward. Toxic gas can be formed.

### 6. ACCIDENTAL RELEASE MEASURES

Sweep up and place in a disposal container, caring not to generate dust. Flush the area with plenty of water.



## 7. HANDLING AND STORAGE

- Handling** : Use care to minimize dust generation. Wear protective equipment.  
**Storage** : Store in a dry space.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- Engineering Controls** : Provide sufficient mechanical (general and/or local exhaust) ventilation.  
**Protective Equipment** : Dust masks, protective glasses, protective gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Fine, white crystalline powder  
**Melting point** : 354U  
**Boiling point** : Sublimes  
**Specific gravity** : 1.573  
**Vapor pressure** : 50mmHg at 315U  
**Solubility in water** : 0.25gm/100ml at 20U, 1.2gm at 50U, 6.75gm at 100U

## 10. STABILITY AND REACTIVITY

- Hazardous Polymerization** : Cannot occur  
**Stability** : Stable  
**Incompatibility** : Avoid contact with strong acids and strong oxidizing materials.

## 11. TOXICOLOGICAL INFORMATION

- Effects of Overexposure** : May cause irritation of eyes, skin, nasal and respiratory passages.  
**Acute oral toxicity** : LD<sub>50</sub> 3,161mg/kg (Rats)  
LD<sub>50</sub> 3,296mg/kg (Mice)

## 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : LD<sub>50</sub> (48hrs) > 2000mg/l (Daphnia)  
**Biodegradation** : Not readily biodegradable  
BOD = 0% (Test method : MITI)

## 13. DISPOSAL CONSIDERATION

Dispose as flameproof materials. Any disposal practice must be in compliance with regulations.



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#### 14. TRANSPORT INFORMATION

Not regulated by IMO ( International Maritime Organization)

#### 15. REGULATORY INFORMATION

**TSCA Inventory** : Listed  
**EINECS** : 203-615-A  
**Hazard Class** : Non-hazardous

#### 16. OTHER INFORMATION

The information herein is given in good faith, but no warranty, express or implied, is made. Consult Nissan Chemical Industries, Ltd. for further information.

