



Section 1. Product and Company Identification

**Product Name** Melamine  
**CAS Number** 108-78-1

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
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EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
Combustible dust

**GHS Label Elements**  
**Pictograms:** N/A  
**Signal word:** WARNING

**Hazard and precautionary statements**  
**Hazard Statements**  
May form combustible dust concentrations in air

**Precautionary Statements**  
None

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Combustible dust

Section 3. Composition / Information on Ingredients

**Common Name** Melamine  
**Synonym(s)** 2,4,6-Triamino-1,3,5-triazine; sym-Triaminotriazine  
**Formula** C<sub>3</sub>H<sub>6</sub>N<sub>6</sub>  
**CAS Number** 108-78-1

COMPONENT	CAS NUMBER	CONCENTRATION
Melamine	108-78-1	≤ 100%

#### Section 4. First Aid Measures

##### Description of first-aid measures

**General Advice:** Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Skin contact:** Wash off with soap and plenty of water.

**Eye contact:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

#### Section 5. Firefighting Measures

##### Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Avoid dust formation. Avoid breathing vapors, mist, or gas. For personal protection see section 8.

**Environmental precautions:** No special environmental precautions required.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

#### Section 7. Handling and Storage

**Precautions for safe handling:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Solids

Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters**

Component	CAS Number	Value	Control Parameters	Basis
Melamine	108-78-1	TWA	5 mg/m <sup>3</sup>	USA Workplace Environmental Exposure
		TWA	10 mg/m <sup>3</sup>	

**Exposure controls**

**Appropriate engineering controls:** General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** No special environmental precautions required.

Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Appearance**

**Form:** Solid

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/range:** > 300°C (> 572°F) - lit.

**Initial boiling point and boiling range:** No data available

**Flash point (Closed Cup):** 300°C (572°F)

**Evaporation rate:** No data available

**Flammability (solid, gas):** May form combustible dust concentrations in air

**Upper/lower flammability or explosive limits:** No data available  
**Vapor pressure:** No data available  
**Vapor density:** No data available  
**Relative density:** No data available  
**Water solubility:** 3.48 g/l at 20 °C (68 °F)  
**Partition coefficient (n-Octanol/water):** log Pow: -1.219 at 22°C (72°F)  
**Auto-ignition temperature:** > 400°C (> 752°F) at 1,013 hPa (760 mmHg)  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available

**Other safety information:** No data available

#### Section 10. Stability and Reactivity

**Reactivity:** No data available  
**Chemical stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** No data available  
**Conditions to avoid:** No data available  
**Incompatible materials:** Strong oxidizing agents, Strong acids

#### Hazardous decomposition products

**Other decomposition products:** No data available  
In the event of fire: see section 5

#### Section 11. Toxicological Information

##### Acute toxicity

LD50 Oral - Rat - male: 3,161 mg/kg  
LC50 Inhalation - Rat - male and female: > 5,190 mg/m<sup>3</sup> (4 h)  
LD50 Dermal - Rabbit: > 1,000 mg/kg

##### Skin corrosion/irritation

Skin - Rabbit  
Result: No skin irritation

##### Serious eye damage/eye irritation

Eyes - Rabbit  
Result: Mild eye irritation - 24h

##### Respiratory or skin sensitisation

Maximisation Test (GPMT) - Guinea pig  
Did not cause sensitisation on laboratory animals.  
(OECD Test Guideline 406)



### **Germ cell mutagenicity**

Laboratory experiments have shown mutagenic effects.  
in vitro assay  
S. typhimurium  
Result: negative  
Mouse - male  
Result: negative

### **Carcinogenicity**

Carcinogenicity - Rat - Oral  
Tumorigenic: Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder:Tumors.  
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Melamine)

**ACGIH:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

### **Reproductive toxicity - Rat - Inhalation**

**Paternal Effects:** Spermatogenesis (including genetic material, sperm morphology, motility, and count). Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Embryo or Fetus: Fetal death.

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

### **Additional Information**

Repeated dose toxicity - Rat - male - Oral - Lowest observed adverse effect level - 72 mg/kg

**RTECS:** OS0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Section 12. Ecological Information
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**Toxicity:** Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 48 mg/L - 48h



**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

#### Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

Chronic Health Hazard

#### **Massachusetts Right to Know Components**

Melamine (CAS-No. 108-78-1)

Revision Date: 1993-04-24

#### **Pennsylvania Right to Know Components**

Melamine (CAS-No. 108-78-1)

Revision Date: 1993-04-24

#### **New Jersey Right to Know Components**

Melamine (CAS-No. 108-78-1)

Revision Date: 1993-04-24

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



**HMIS Rating**

**Health:** 0\*

**Flammability:** 1

**Reactivity:** 0

**NFPA Rating**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

Section 16. Other Information

**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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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