

Report ID: 0911112-005

Material Safety Data Sheet

Melamine-formaldehyde resin foam

Section 1 - Chemical Product and Company Identification

Sample Name: Melamine-formaldehyde resin foam

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Section 2 - Composition, Information on Ingredients

Chemical Name	Percent (by weight)	CAS No.	EC#	MITI No.
Melamine-formaldehyde resin	100%	9003-08-1	Unlisted	7-559

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

None expected from normal handling. Exposure to fiber/chips in processing may be irritating to eyes, nose, and throat. Excess heated in any processing or other use will produce irritating or toxic fumes.

Target Organs: Eye, skin, digestive tract.

UN Hazard Class: None.

Potential Health Effects:

- **Eye:** No health effects are expected under normal use. Contact with chips/fiber/smoke, may cause eyes discomfort.
- **Skin:** No health effects are expected. If contact with hot material may cause burn.
- **Ingestion:** Ingestion of this material is unlikely. If ingest, may cause cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

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- **Inhalation:** Breathing dust or fumes of this product may cause coughing, dyspnea, wheezing, general irritation of the nose, throat, and upper respiratory tract. The toxicological properties of this substance have not been fully investigated.

Section 4 - First Aid Measures

Eyes: In case of eye irritation from content of sponge, dust, vapor and smoke, flush with ample quantities of water or suitable eyewash for 15 minutes. Avoid rubbing eyes. Seek medical attention if necessary.

Skin: Flush with plenty of water. If contact with hot material, cool the burn area by flushing with large amounts of water. DO NOT attempt to remove anything from the burn area. Cover the burn area loosely with a sterile dressing, if available and seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.

Ingestion: Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal blockage does not occur.

Section 5 - Fire Fighting Measures

General Information: Foam may burn rapidly with high heat and evolution of black smoke. If ignited the product may melt, producing flammable liquids. As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

Extinguishing Media: Foam, carbon dioxide, chemical powder, water spray or fog.

Section 6 - Accidental Release Measures

General Information: Review Section 5 and Section 7 sections before proceeding with clean-up. Use proper personal protective equipment as indicated in Section 8.

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Spills/Leaks: Remove all sources of ignition. Collect up, and then place into a suitable container for disposal or recycle. Use with appropriate ventilation.

Section 7 - Handling and Storage

General Information: This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling chemical products and before eating.

Storage: Store in a cool, dry, well-ventilated area away from source of heat or ignition. Keep away from incompatible substances. Do not allow product scrap and cuttings to accumulate and maintain clear aisles with adequate access to all storage areas and exits. The storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Handling: Use with appropriate ventilation. Keep away from source of heat or ignition. Treat carefully, avoid physical damage to containers. Avoid generating dust/chips. Avoid all unnecessary exposure. Avoid contact with eyes. Avoid ingestion and inhalation. Remove contaminated clothing and shoes. Wash clothing and shoes thoroughly before reuse. The work area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Section 8 - Exposure Controls, Personal Protection

Exposure Limit:

No exposure limits is listed for this product. But nuisance dust limits can be used for this product.

Composition: Nuisance dust

- TLV-TWA 10 mg/m³ (ACGIH, total)
- TLV-TWA 3 mg/m³ (ACGIH, respirable fraction)
- PEL-TWA 15 mg/m³ (OSHA, total)
- PEL-TWA 5 mg/m³ (OSHA, respirable fraction)

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Monitoring Methods: No information found.

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Equipped with safety shower and eyes bath.

Personal Protective Equipment:

- **Eyes:** It is recommended to wear safety glasses with side shields or goggles.
- **Skin and Clothing:** Wear appropriate protective clothing. It is recommended to wear appropriate protective gloves.
- **Respirators:** An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator or a self contained breathing apparatus should be used when large spilled or fire.
- **Other Protection:** To maintain good health habits. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling chemical products and before eating.

Section 9 - Physical and Chemical Properties

Physical State: White foam, with odourless.

Molecular Formula: $(C_3H_6N_6 \cdot CH_2O)_x$

Molecular Weight: N/A

PH: N/A

Flash Point: N/A

Boiling Point: N/A

Melting Point: N/A

Density: $\approx 0.0085 \text{ g/cm}^3$

Octanol / water distribution coefficient: N/A

Flash point (°C) : N/A

Viscosity: N/A

Ignition Temperature (°C) : N/A

Explosion Limits [% (V/V)]: N/A

Decomposition Temperature: N/A

Water Solubility: Insoluble in water.

Chemical Uses: Cleaning.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal condition.

Conditions to Avoid: Excess heat, any source of ignition, incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, formaldehyde, dense smoke and etc.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Toxicological Information:

Composition: CAS# 9003-08-1

- RTECS# OS1140000
- LD50: >10 g/kg (Oral, rat)
- LD50: >10 g/kg (Skin, rabbit)

Carcinogenicity:

Composition: CAS# 9003-08-1

- Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Sensitization Rate: Not available.

Teratogenicity: Not available.

Section 12 - Ecological Information

Ecological Toxicity: Not available.

Ecological Degradation: Not available.

Biology Degradation: Not available.

Other Information: The product is a polymer, which will not easily degrade in environment.

Section 13 - Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

Not regulated as a hazardous material for transportation. (TDG; IMDG CODE)

UN: N/A

UN Hazard Class: N/A

Shipping Name: N/A

Packaging Sign: N/A

Transport Fashion: By sea, by road.

Packaging Information: Plastic bag, carton.

Section 15 - Regulatory Information

Regulatory Information: Reference to the local, national, US, EU, CA, Japan and international regulations.

DSL:	CAS# 9003-08-1 is listed.
TSCA:	CAS# 9003-08-1 is listed.
TSCA Section 12b:	CAS# 9003-08-1 is unlisted.
TSCA Significant New Use Rule:	CAS# 9003-08-1 is unlisted.
SARA Section 302:	CAS# 9003-08-1 is unlisted.
SARA Section 313:	CAS# 9003-08-1 is unlisted.
US Clean Air Act:	CAS# 9003-08-1 is unlisted.
US Clean Water Act:	CAS# 9003-08-1 is unlisted.
US Chemical Test Rules:	CAS# 9003-08-1 is unlisted.
US Health & Safety Reporting List:	CAS# 9003-08-1 is unlisted.

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OSHA:

CAS# 9003-08-1 is unlisted.

California Prop 65:

CAS# 9003-08-1 is unlisted.

European Labeling in Accordance with EC Directives:

Hazard Symbols: None.

Risk Description: None.

Safety Description: None.

Section 16 - Additional Information

Issue Time: 2009-11-16

Issue Department: Technical department

Data review unit:

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

ACGIH: (American Conference of Governmental Industrial Hygienists) ; CAS: (Chemical Abstracts Service) ; DSL: (the Domestic Substances List of Canada) ; EC: (European Commission) ; ENCS (MITI No.) : (Existing and New Chemical Substances of Japan) ; IARC: (International Agency for Research on Cancer) ; IATA: (International Air Transport Association) ; IECSC: (Inventory of Existing Chemical Substances in China) ; IMDG: (International Maritime Dangerous Goods) ; LD50: (Lethal dose, 50 percent kill) ; MAC: (Maximum allowable concentration) ; NDSL: (the Non-domestic Substances List of Canada) ; NIOSH: (US National Institute for Occupational Safety and Health) ; NTP: (US National Toxicology Program) ; OSHA: (US Occupational Safety and Health) ; PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit) ; RTECS: (Registry of Toxic Effects of Chemical Substances) ; SARA: (Superfund Amendments and Reauthorization Act) ; STEL: (Short Term Exposure Limit) ; TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations) ; TSCA: (Toxic Substances Control Act of USA) ; TWA: (Time Weighted Average) ; TLV: (Threshold Limit Value)