



## MAST MF22 Series Lossy Foam Absorbers

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** MAST MF22 Series Lossy Foam Absorbers  
**PRODUCT CODE:** All MAST PNs leading w/ MF22

**MANUFACTURER:** MAST Technologies  
**ADDRESS:** 6370 Nancy Ridge Dr., Suite 103  
 San Diego, CA 92121-3212

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 San Diego, CA

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**Issue Date:** 03/23/2011  
**Supersedes Date:** N/A

**Product Use:** Carbon loaded lossy foam absorber.

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Polyurethane Foam Resin	9010-69-9	10-30%
Carbon Black	1333-86-4	50-70%
Styrene Acrylate Copolymer	57516-68-4	10-15%

**Notes:** See additional exposure information in Section 8, below.

### SECTION 3: HAZARDS IDENTIFICATION

**NFPA Rating:** Health: 2, Flammability: 2, Reactivity: 0

**HMIS Classification:** Health: 2, Flammability: 2, Reactivity: 0, Protection: See PPE Section 8.

#### EMERGENCY OVERVIEW:

**Specific Physical Form:** Solid sheet foam

**Odor, Color, Grade:** Black with a faint characteristic odor

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** Dust from this product may be harmful if inhaled. Abrasion of particles may cause eye, skin, and respiratory tract irritation. Ingestion may cause gastric disturbances. High-heat processing may liberate toxic gases. If ignited, the product may melt, producing flammable liquids. Burning produces toxic gases, intense heat, and dense smoke.

#### POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Contact with dust may cause irritation to the eyes. Symptoms may include redness, watering, itching, or a burning sensation in the eyes.

**Skin Contact:** Contact with dust does not generally cause skin irritation.

**Inhalation:** High concentrations of airborne dust may irritate the respiratory tract, including the nose, throat, and lungs. Symptoms may include coughing, nausea, headaches, or dizziness. If ignited, burning produces toxic gases which are fatal if inhaled in sufficient quantities.

**Ingestion:** Ingestion may cause irritation to the gastrointestinal tract but is unlikely to occur in industrial or commercial use.

**Chronic:** Animal studies indicate that chronic overexposure to dust of the material may cause inflammation of the lungs, fibrosis, and airway obstruction.

#### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water. Remove contact lenses. Flush with water for at least 15 minutes while occasionally lifting lower and upper eyelids. If irritation persists seek medical attention.

**Skin Contact:** Wash material from the skin thoroughly with soap and water. If irritation persists seek medical attention.

**Inhalation:** Inhalation of burning fumes can be incapacitating or fatal to human beings. Remove to fresh air and rest in half-upright position. If breathing is difficult administer oxygen. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop.

**Ingestion:** If conscious, immediately rinse mouth and give large amounts of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

#### SECTION 5: FIRE FIGHTING MEASURES

**Fire Hazards:** Keep away from heat, sparks, open flame, or other ignition sources.

<b>Flash Point:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Flammable Limits in Air (% by volume) – LEL:</b>	Not applicable
<b>Flammable Limits in Air (% by volume) – UEL:</b>	Not applicable
<b>Hazardous Decomposition Products:</b>	See Section 10, below

**If ignited, burning polyurethane foam produces toxic gases which are fatal if inhaled in sufficient quantities. Once ignited, polyurethane foam will burn rapidly, release great heat, and consume oxygen at a high rate in an enclosed space. Deficiency of oxygen will present a danger of suffocation to occupants.**

**Extinguishing Media:** Use dry chemical, foam, or water spray.

**Special Fire Fighting Procedures:** Use self-contained breathing apparatus with full face piece operated in pressure mode and protection for skin. Keep containers cool with water spray, if possible. If ignited, burning produces toxic gases which are fatal if inhaled in sufficient quantities.



## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Containment Techniques:** Solid material is generally not a spill concern; however, dust particles from this material may be applicable to spill containment. Restrict area where spill occurred. Tarp spilled material if outdoors to prevent wind dispersion of particles until clean-up can occur.

**Environmental Protection:** Do not discharge particles into drains/surface waters/groundwater.

**Methods for Cleaning-up:** Refer to Section 8, below, for exposure controls. Restrict area and ensure adequate ventilation. Dampen and gently sweep spilled material. Mechanically pick up dampened material and dispose of. Mop or wipe residual from surface using water.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Use proper personal protective equipment when handling (See Section 8, below). Avoid formation and inhalation of dust particles. Do not eat, drink, or smoke when using this product. Use only in a well-ventilated area. Wash thoroughly with soap and water after handling.

**Storage:** Store in a cool, dry, well-ventilated area away from heat, sparks, open flames, or other sources of ignition.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment (PPE):

**Eyes and Face:** Use tightly-fitting safety goggles when dust and thermal decomposition gases may be present.

**Skin:** Use nitrile rubber gloves on hands and wear additional impervious clothing as appropriate to protect skin.

**Respiratory:** In the event that overexposure cannot be avoided, a full-face respirator with cartridges approved by NIOSH when dust exposure levels are known to be within the unit's capability. Use a positive-pressure, air-supplied respirator if exposure levels are not known or where purifying respirators may not provide adequate protection for thermal decomposition products.

**Engineering Controls:** Provide local exhaust ventilation in processes to capture dust or thermal decomposition gases at their source. If ignited, burning polyurethane foam produces toxic gases which are fatal if inhaled in sufficient quantities. Maintain adequate sprinkler protection where large volumes of product are kept.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Appearance:</b>	Solid
<b>Color:</b>	Black
<b>Odor:</b>	Characteristic
<b>Solubility:</b>	Insoluble

<b>pH:</b>	Not applicable
<b>Boiling Range:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Melting Point:</b>	Not applicable

#### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** This product is stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Avoid storage under heat and by flames, ignition sources and incompatibles. Avoid exposure to temperatures above 95°C.

**Incompatibility with Other Materials:** Avoid contact or contamination with strong oxidizers and acids and molten alkali metals.

**Hazardous Decomposition Products:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Nitrogen oxides, metal oxides, formaldehyde, silicone dioxide, and carbon oxides.

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal processing.

#### SECTION 11: TOXOLOGICAL INFORMATION

**Acute Toxicity:** NIOSH – Selected LD50s & LC50s: No data available  
ACGIH 2000 – Skin Absorption Designation: No data available

**Chronic Toxicity:** No data available.

**Carcinogenic Status:** IARC Carcinogens: Not listed  
OSHA – Select Carcinogens: Not listed  
NTP Eighth Report – Known Carcinogens: Not listed

#### SECTION 12: ECOLOGICAL INFORMATION

**Ecolotoxicological Information:** Not determined

**Chemical Fate Information:** Not determined

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of absorbed material in accordance with all federal, state, and local regulations. Dispose of contaminated water in a contained waste treatment system.

#### SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** Not regulated



**Air Transportation:** Not regulated

#### SECTION 15: REGULATORY INFORMATION

**California – Prop 65 Regulations:** Not listed

**Clean Air Act Regulations:** Not listed

**TSCA (United States):** Not listed

**FDA:** Not listed

**USDA:** Not listed

**EPA:** Not listed

#### SECTION 16: OTHER INFORMATION

**Revision Information:** No changes.

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