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NAPHTHALENE (MOTH BALLS)

DATE ISSUED: 01/17/00

SECTION I IDENTIFICATION

Product Name: Naphthalene (Moth Balls) **Emergency Telephone Number:** 1-800-424-9300

SECTION II HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Components **CAS #** **OSHA PEL** **ACGIH TLV**

Naphthalene 91-20-3 10 ppm 10 ppm

Short term exposure limit (STEL) 15ppm

Degree of Hazard

4 - Extreme	Flammability	2
3 - High	Health	2
2 - Moderate	Reactivity	0
1 - Slight		
0 - Insignificant		

SECTION III PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance & Odor: White solid (moth ball odor). **Evaporation Rate (Other = 1):** 1

Specific Gravity (H₂O=1): 1.145 **Vapor Pressure (mm Hg) @ 77°F:** 0.082

Solubility in Water @ 68°F: 0.003 g/100 g **Melting Point:** 176°F (80°C)

Boiling Point: 424°F (218°C) **Vapor Density (Air = 1):** 4.42

SECTION IV FIRE & EXPLOSION DATA

Flash Point: 190°F, open cup, 174°F closed cup **Flammable Limits:** NFPA 0.9% & 5.9%

Extinguishing Media: Water fog, dry chemical, CO₂ and foam.

Special Fire Fighting Procedures: Smoke & vapors from Naphthalene fires should be avoided; use self-contained breathing apparatus with a full face-piece.

Unusual Fire & Explosion Hazards: Reaction between water & molten Naphthalene above 230°F (110°C) is violent; avoid use of water on hot molten Naphthalene.

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SECTION V REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Avoid closed room & contact between water and hot Naphthalene.

Hazardous Polymerization: Will not occur.

SECTION VI HEALTH HAZARDS

Signs & Symptoms of Exposure: Contact may cause skin or eye irritation. Inhalation may cause headache, nausea and perspiration. Ingestion may cause cramps, nausea, vomiting and diarrhea. Lowest published lethal human oral dose – 50 mg/kg (NIOSH).

Emergency & First Aid Procedures: Remove contaminated clothing at once. Flush skin and eyes with copious quantities of water. See a physician immediately for burns, eyes, inhalation systems and ingestion.

SECTION VII PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be Taken in Case Material is Released or Spilled: Solidified Naphthalene can be picked up with broom and non-sparking shovel. Workers should wear dust respirator. Molten Naphthalene may be allowed to solidify before being cleaned.

Waste Disposal Methods: Waste Naphthalene may be incinerated or buried as applicable codes and regulations permit. Workers should wear organic vapor/dust respirator for liquid/solids handling and self-contained air supply around burning Naphthalene.

Precautions to be Taken in Handling & Storing: Molten Naphthalene tanks should be adequately vented; inert gas blanketing is recommended for storage tanks.

SECTION VIII CONTROL MEASURES

Local Exhaust: Exhaust fan needed for use in closed areas.

Mechanical (General): Vent tanks of molten Naphthalene.

Protective Gloves: Yes, rubber or other chemical handling glove.

Eye Protection: Yes, safety goggles.

Other Protective Clothing or Equipment: Face shield when handling liquid, fresh air masks for fires; locate safety shower and wash in area.

