

Material Safety Data Sheet

UAFOAM PART A

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PRODUCT IDENTIFICATION

TRADE NAME: NCFI 26-87 A Slow, Regular, Fast

CHEMICAL FAMILY: Aromatic Isocyanate

CHEMICAL NAME: Polymethlenepolyphenylisocyanate

FORMULA: N/A

SYNONYMS: Polymeric MDI

DATE PREPARED: 7/30/99

INGREDIENTS - HAZARD CLASSIFICATION

NAME:	CAS NO.	%	TLV/PEL
Diphenylmethane diisocyanate (MDI) ¹	101-68-8	50%	0.02 ppm ceiling
Higher polymers of similar structure ¹	9016-87-9	50%	Not established

¹ Not listed as a carcinogen (NTA, IARC, OSHA)

PHYSICAL DATA

BOILING POINT: 625°F

SPECIFIC GRAVITY: 1.24

SOLUBILITY IN WATER: Insoluble, reacts

% VOLATILE BY VOLUME: None

APPEARANCE AND ODOR: Brown liquid, slightly aromatic odor

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): 390°F (Pensky-Martens)

EXTINGUISHING MEDIA: Water, dry chemicals, CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: A self-contained breathing apparatus must be worn to protect against toxic and irritating vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: At temperatures above 400°F, MDI should be worn to protect against toxic and irritating vapors.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Contamination with water.

POLYMERIZATION: May occur if in contact with water or other isocyanate reactive materials.

INCOMPATIBILITY: Water, alcohols, amines, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire, CO, CO₂, NO_x, benzene, toluene, aliphatic fragments, traces of HCN.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 0.02 ppm ceiling for MDI

EFFECTS OF OVEREXPOSURE: May cause skin or eye irritation upon contact. Inhalation of MDI vapors may cause breathlessness, chest discomfort, coughing and reduced pulmonary function. Exposure may product asthma-like symptoms, also may lead to allergic sensitivity.

FIRST AID PROCEDURES:

Eyes: Flush with flowing water at least 15 minutes then obtain medical attention.

Skin: Remove contaminated clothing and wash off with soap & water.

Inhalation: Remove to fresh air, administer oxygen if necessary.

Ingestion: Drink large amounts of water. See a physician.

SPECIAL PROTECTION INFORMATION

Respiratory Protection: The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, **see OSHA standard 29CFR 1910.134**. All equipment must be NIOSH/MSHA approved and maintained.

Ventilation: MDI has a very low vapor pressure at room temperature. General/local ventilation typically control exposure levels very adequately. Uses requiring heating and/or spraying may require more aggressive engineering controls or personal protective equipment. Monitoring is required to determine engineering controls.

Eye Protection: Wear goggles or chemical safety glasses.

Gloves: Chemically resistant rubber or plastic.

Other: Avoid eye and skin contact. Eye wash system and safety showers should be available.

SPILL OR LEAK PROCEDURES

Contain spill. Absorb with sawdust, etc., and shovel into open top drum. Decontaminate absorbent and spill area with 2% detergent/water solution. Let waste stand for 1 to 2 days, then dispose of waste in a licensed facility. Respiratory protection/ventilation is recommended during clean-up.

SPECIAL PRECAUTIONS

Store between 65°F and 85°F out of sunlight. Keep tightly sealed to prevent moisture contamination. Relieve pressure slowly when opening container. Once opened, protect contents from water with dry atmosphere (-40°F dew point). If isocyanate becomes contaminated, do not reseal. Empty isocyanate drums or other containers should be decontaminated by filling with water or decontamination solution, preferably outdoors. Allow to stand for 24-48 hours, open to the atmosphere. **DO NOT SEAL DRUMS OR CONTAINERS.** Drain the drums and puncture to prevent reuse. Dispose of as ordinary industrial waste.

CAUTION: Under no circumstance should empty drums be burned or cut open with an electric or gas torch.

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