

Material Safety

Data Sheet

FOAM CONCEPTS, LLC

29 9th Street, PO Box 217
Cloquet, MN 55720
1-888-744-7584
www.foamconceptsllc.com

PRODUCT IDENTIFICATION

Trade Name: FC ES 24-005 A

Chemical Family: Aromatic Isocyanate

Chemical Name: Polymethylene polyphenylisocyanate

Formula: N/A

Synonyms: Polymeric MDI

Date Prepared: 04/29/08

INGREDIENTS-HAZARD CLASSIFICATION

Name:	CAS NO.	%	PEL
Diphenylmethane diisocyanate (MDI) ¹	101-68-8	50	0.02 ppm ceiling
Higher polymers of similar structure	9016-87-9	50	None Established.

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

SHIPPING INFORMATION

Not regulated when shipped by land, water or air when packaged in single containers of 5000 pounds or less.

PHYSICAL DATA

Boiling Point (°F): 625°F

Specific Gravity: 1.24

Solubility in Water: Insoluble, reacts

Appearance and Odor: Brown liquid, slight aromatic odor

% Volatile by Volume: None

FIRE AND EXPLOSION HAZARD DATA

Flash Point (test method): 390°F (P-M)

Extinguishing Media: Water, dry chemicals, CO₂

Special Fire Fighting Procedures: A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

Unusual Fire and Explosion Hazards: At temperatures above 400°F, MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Avoid water contamination in closed containers which may cause rupture (CO₂ is evolved).

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Contamination with water

Polymerization: May occur from contact with water, alcohols, glycols or other materials containing active hydrogens.

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

Permissible Exposure Limit: 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 functions. Exposure may produce asthma-like symptoms, also may lead to allergic sensitivity.

First Aid Procedures

Eyes: Flush with flowing water for 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

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.

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.

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 container 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.

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Last Revision Date: 6/16/00

SARA 313 INFORMATION

The isocyanate (A) component product of this FCI system contains the following chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, EPCRA Section 313 (40 CFR 372) and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CERCLA RQ</u>	<u>CONCENTRATION</u>
Methylene Bis Phenylisocyanate (Same as Diphenylmethane diisocyanate (MDI))	101-68-8	5000 lbs.	See MSDS – A Component
Polymeric Diphenylmethane diisocyanate	9016-87-9		See MSDS – A Component

IMPORTANT NOTICE

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