

By Aldon Corporation  
221 Rochester Street  
Avon, New York 14414-9409  
© (585) 226-6177

"cutting edge science for the classroom"

3947

MSDS No.: IS7018  
Effective Date: June 6, 2005

### SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Polyurethane Foam System
Chemical Synonyms	N/A
Formula	Mixture.
Unit Size	Set of 2 (Part A)
C.A.S. No.	Mixture.
SECTION II	INGREDIENTS OF MIXTURES
Principal Component(s)	% TLV Units
Isocyanic acid, polymethylololiphenylene ester: CAS No. 9016-87-9	55% N/A
Methylololiphenylene diisocyanate (MDI): CAS No. 101-68-8	45% 0.005 ppm; 0.051 mg/m <sup>3</sup>
Diphenylmethane diisocyanate: CAS No. 28447-40-5	5% 0.005 ppm; 0.051 mg/m <sup>3</sup>

1	2	3	4
3	1	1	1
Day	585-226-6177	Health	3
Day	585-226-6177	Fire	1
Day	585-226-6177	Reactivity	1
Day	585-226-6177	HMIS*	
Day	585-226-6177	Health	3
Day	585-226-6177	Fire	1
Day	585-226-6177	Reactivity	1

SECTION III	PHYSICAL DATA
Melting Point (°F)	< 32°F (< 0°C) (for MDI)
Boiling Point (°F)	406°F (207.8°C)
Vapor Pressure (mm Hg)	N/A
Vapor Density (Air=1)	8.5 (for MDI)
Solubility in Water	Insoluble.
Appearance & Odor	Brown viscous liquid.

SECTION IV	FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used)	390°F (198.9°C)
Extinguisher Media	Dry chemical, carbon dioxide, foam, or water fog.

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. DO NOT GET WATER INSIDE CONTAINERS. Ventilate spill area. Eliminate all ignition sources.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

During a fire, irritating vapors and highly toxic gases or fumes may be generated by thermal decomposition or combustion. At temperatures greater than 400°F (204°C), components may polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible.

### SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Methylololiphenylene, Inhalation LC50 Rat: 178 mg/m<sup>3</sup>; Oral LD50 Rat: 9200 mg/kg; Isocyanic acid, Inhalation LC50 Rat: 490 mg/m<sup>3</sup>/4hr; Oral LD50 Rat: 49 mg/kg

Effects of Overexposure

Liquid or vapors may irritate the eyes. Contact with skin may cause sensitization. May cause respiratory sensitization and irritate respiratory tract with possible permanent decrease in lung function. Ingestion may result in burns to mouth, esophagus and damage to stomach. Exercise appropriate procedures to minimize potential hazards. Target organs: Respiratory system, eyes.

### Emergency and First Aid Procedures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### SECTION VI REACTIVITY DATA

	Unstable	Conditions to Avoid	Excessive heat, temperatures, sparks and open flames.
Stability	Stable		
Incompatibility (Materials to Avoid)	Water, alcohols, amines, strong bases.		

### Hazardous Decomposition Products

Cyanides and ammonia may be formed.

### Hazardous Polymerization

Conditions to Avoid  
Contact with moisture, other materials which react with isocyanates or temperatures above 400°F (204°C).

### SECTION VII SPILL OR LEAK PROCEDURES

### Steps to be taken in case material is released or spilled

Ventilate spill area. Eliminate all ignition sources. Absorb with an inert dry material and place in an appropriate container for proper disposal. Wash spill area thoroughly with soap and water.

### Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog size quantities only. Dispose of in accordance with federal, state and local regulations.

### SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection	None needed in normal laboratory handling. If misty conditions prevail, work in (Specify Type)
Ventilation	Local Exhaust
Protective Gloves	Rubber
Eye Protection	Chemical safety goggles.

### SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken  
Store in a cool, dry place away from fire hazards. Wash thoroughly after handling.

### Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Keep container tightly closed when not in use.

Avoid contact with skin, eyes and clothing. Do not breathe vapors. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No.	5	Date	06/06/05	Approved	Michael Flaszera	Chemical Safety	MR
--------------	---	------	----------	----------	------------------	-----------------	----

The information contained herein is furnished without warranty of any kind. End users should use this information only as a supplement to other information gathered by them and must make their own determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Hazardous Materials Industrial Standards. Printed on recycled paper.