



MATERIAL SAFETY DATA SHEET

System Three Resins, Inc.

3500 W. Valley Hwy N; Suite 105

Auburn, Washington 98001

SECTION I - PRODUCT IDENTIFICATION

Product Name: **Flotation Foam Part A**
MSDS Number: 3700A
Product Type: Polyisocyanate Resin Mixture
24-hr Emergency Phone:
CHEMTREC (800) 424-9300

Date of Prep: September 5, 2011
Information: 253-333-8118
Prepared By: J. Bartlett

HMIS Hazard Ratings:
Health 3*
Fire 1
Reactivity 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	AMOUNT	CAS NUMBER	OSHA PEL	ACGIH TLV
Diphenylmethane-4,4'-diisocyanate (MDI)	50-60 %	101-68-8	0.2mg/m ³	.005 ppm TWA
P-MDI	50-60%	9016-87-9	not established	not established

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity: 1.2@25°C
Vapor Density (Air=1): 8.5
Evaporation Rate: Slower than Ether
Appearance and Odor: Thin brown liquid with very slight characteristic odor.

V.O.C. Content: 0 grams/liter
Vapor Pressure: <1.6X10⁻⁵ mm Hg@20°C
Water Solubility: Reacts with water

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 424°F
Method: COC
Flammable Limits in Air By Volume - Lower: N/A Upper: N/A
Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog

Special Firefighting Procedures: When fighting chemical fires wear full protective equipment with self-contained breathing apparatus. Water spray may be used to cool fire-exposed containers. Toxic fumes may be evolved when this substance is burned.

SECTION V - REACTIVITY DATA

Stability: Stable.
Hazardous Polymerization: May occur on reaction with moisture or other materials which react with isocyanates.
Incompatibility: Water, amines, strong bases, alcohols. Will cause corrosion to copper alloys and aluminum.
Hazardous Decomposition Products: (On burning) Oxides of carbon, nitrogen, traces of HCN.
Conditions to Avoid: Store away from moisture or extreme heat.

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Eye and skin contact, inhalation and ingestion.

EFFECTS OF OVEREXPOSURE:

Acute: Slightly irritating to skin, moderately irritating to eyes. Odor may irritate nose, throat and respiratory tract of some persons.

Chronic: May cause skin sensitization from prolonged and repeated contact. No studies have shown conclusive evidence that MDI is teratogenic or that it produces reproductive effects in humans.

Carcinogenicity: No studies have shown conclusive evidence that MDI is carcinogenic.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with water for 15 minutes holding eyelids open. Seek medical attention.

Skin: Remove contaminated clothing and shoes and wipe excess off skin. Flush skin with water. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned. Contaminated leather articles (shoes) cannot be decontaminated and should be destroyed.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Give 1 to 2 cups of water or milk to drink. Do not give anything by mouth to an unconscious person. Get medical attention.

Medical Conditions Generally Aggravated by Exposure: MDI is a respiratory sensitizer. Asthma, other respiratory disorders, skin allergies, or eczema could be aggravated by prolonged or repeated exposure to this material.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

If Material is Spilled: Avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust, or other absorbent, and shoveled into disposal containers, which should not be sealed tightly.

Waste Disposal Method: Place in an appropriate disposal facility in compliance with local, state, and federal (40 CFR 261) regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none is required when adequate ventilation is provided, and material is not sprayed or heated. In the absence of proper environmental control, a NIOSH-approved, air-supplied respirator should be worn. For emergencies, a self-contained breathing apparatus or full-faced respirator is recommended.

Ventilation: Provide adequate ventilation in work areas to keep material below TLV. Confine material in sealed containers when not in use.

Hand Protection: Always wear impervious gloves, neoprene, vinyl or rubber.

Eye Protection: Splash proof goggles, full-face shield, or safety spectacles with side shields are recommended. Always wear eye protection when sanding cured resins to avoid dust in eyes.

Other Protective Equipment: Wear clean, body-covering clothing to avoid skin contact.

SECTION IX - TRANSPORTATION REQUIREMENTS

This product is listed on the U.S. TSCA inventory and the Canadian DSL

Department of Transportation Classification: Not regulated when shipped in quantities less than 5000 lbs.

D.O.T., IATA, IMDG Proper Shipping Name(> 5000 lb.): Diphenylmethane - 4,4 diisocyanate, NOS, Class 9, PG III

Other Requirements:

This product contains the following toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Diphenylmethane-4,4'-diisocyanate (MDI)	WT%	CAS No.	OSHA PEL	ACGIH TLV
	50-60 %	101-68-8	0.2mg/m ³	.005 ppm TWA

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Ingestion: INDUCE VOMITING. Do not give anything by mouth to an unconscious person. Get medical attention.

Medical Conditions Generally Aggravated by Exposure: There are no medical conditions known that could be aggravated by prolonged or repeated exposure to this material.

SECTION VI - REACTIVITY DATA

Stability: Stable.

Hazardous Polymerization: May occur on reaction with moisture.

Incompatibility: Oxidizing materials, isocyanates, acids, and alkaline materials.

Hazardous Decomposition Products: (On burning) Oxides of carbon.

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