

# Safety Data Sheet

This product is covered by the U.S. Department of Labor Occupational Safety and Health Administration's Hazard Communication Standard. All customers and end users should read this SDS before storing, handling, processing and / or disposing of this product.

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Air-Foam 2 part pourable polyurethane foams.  
System is comprised of: Part A, Isocyanate  
Part B, Resin  
Packaged in 55-gallon drums, 1 & 5-gallon cans

**Air-Foam**  
POURABLE FOAM SYSTEM

**Company identification:** Polyumac USA LLC  
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## 2. HAZARDS IDENTIFICATION

### A-side - Isocyanate



- Irritant (skin and eye)
- Respiratory Sensitizer
- Aspiration Toxicity

Causes serious eye irritation  
Causes skin irritation  
May cause allergic skin reaction  
Harmful if inhaled, may cause respiratory irritation  
May cause allergy or asthma symptoms  
May cause breathing difficulties if inhaled  
May cause damage to organs through prolonged or repeated exposure  
Suspected of causing cancer

### B-side - Resin



- Irritant (skin and eye)
- Respiratory Tract Irritant
- Harmful if swallowed

May cause eye irritation  
May cause skin irritation

May cause respiratory irritation

### **Precautionary statements:**

Do not breathe vapors or mist  
Wear eye protection / gloves / face protection  
If in the eyes, rinse cautiously with water for 15 minutes. If wearing contact lenses, rinse for 2 minutes, remove contact lenses, rinse again for 15 minutes  
If on the skin, thoroughly wash with soap and water  
If inhaled, move to fresh air

Persons with respiratory conditions should avoid working with these products

3. COMPOSITION INFORMATION / INGREDIENTS					
<u>A-side - Isocyanate</u>			<u>B-side – Resin</u>		
<u>Component</u>	<u>CAS #</u>	<u>% Weight</u>	<u>Component</u>	<u>CAS #</u>	<u>% Weight</u>
Polymeric MDI	9016-87-9	< 56%	Polyol	Proprietary	> 70%
Methylene Diphenyl- Diisocyanate	101-68-8	< 46%	Tertiary Amine	108-01-0	< 10%
			Methyl formate	107-31-3	< 6%
			1,1,1,3,3-pentafluorobutane		
			Proprietary		< 15%

4. FIRST AID MEASURES		
<b>Eye Contact:</b> Flush eyes with plenty of water for 15 minutes. If wearing contact lenses: flush with water for 2 minutes, remove contacts if possible, then continue flushing for 15 minutes.		
<b>A-side - Isocyanate</b> Seek immediate medical attention		<b>B-side – Resin</b> See physician if irritation develops
<b>Cured Polyurethan Foam</b>		
Cutting or grinding can generate dust which can have a abrasive mechanical effect on the eyes. Rinse with water as noted above.		
<b>Inhalation:</b> Move person to fresh air; if adverse effects occur, consult a physician.		
<b>Skin contact:</b> Remove clothing if affected. Wash with soap and water. If irritation develops or persists, seek medical attention.		
<b>Ingestion:</b>		
<b>A-side - Isocyanate</b> DO NOT Induce vomiting Rinse mouth and drink plenty of water Seek immediate medical attention		<b>B-side – Resin</b> Induce vomiting Seek immediate medical attention
<b>Cured Polyurethan Foam</b>		
If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.		
5. FIRE-FIGHTING MEASURES		
	A-side - Isocyanate	B-side – Resin
Extinguishing media	CO <sub>2</sub> , foam, dry powder, water spray	
Unsuitable extinguishing media	Do not use high-volume water spray	
Special hazards	Burning release CO, CO <sub>2</sub> , oxides of nitrogen, isocyanate vapors, and traces of hydrogen cyanide	Overheated containers may rupture due to pressure produced by CF <sub>3</sub> CH <sub>2</sub> CHF <sub>2</sub> . CF <sub>3</sub> CH <sub>2</sub> CHF <sub>2</sub> burns to form acid & noxious gas
Precautions for fire-fighters	Self-contained breathing apparatus and protective clothing.	

6. ACCIDENTAL RELEASE MEASURES		
	A-side - Isocyanate	B-side - Resin
Personal precautions, protective equipment, and emergency procedures	Clear area. Ensure adequate ventilation. Wear personal protective clothing and equipment.	
Environmental precautions	Do not dump into drains, surface waters, or ground water. Prevent from entering soil.	
Special hazards	Cover with absorbant material such as sawdust. Transfer to waste container and do not seal.  Material with react with water to form a solid + CO <sub>2</sub> gas.	Put in waste container, do not seal. Cover remainder with damp, absorbent material such as saw dust. After 1 hour, transfer dust to waste container and do not seal. Clean up area with a solution of 10% sodium carbonate, 2% liquid soap, and water.

7. HANDLING AND STORAGE		
	A-side - Isocyanate	B-side - Resin
Precautions for safe handling	Relieve pressure slowly when opening the container. Empty drums should not be burned or cut with a torch. Provide sufficient ventilation in work rooms. Keep away from foodstuffs and drinks. Wash hands after handling these products	
Conditions for safe storage	Keep containers tightly sealed and out of sunlight.	
Storage Temperature	35F - 110F 2C - 45C	65F - 85F 18C - 30F

8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
Exposure limits	A-side - Isocyanate		B-side - Resin	
	Type	Value	Type	Value
P-MDI	OSHA PEL	CLV 0.02 ppm 0.2 mg/m <sup>3</sup>		
Diphenylmethane-4,4'-diisocyanate (MDI)	OSHA PEL	CLV 0.02 ppm 0.2 mg/m <sup>3</sup>		
1,1,1,3,3-Pentafluoropropane			TWA	300 ppm
Tertiary Amine Catalysts			TWA	None established
Trans-1,2-Dichloroethylene			TWA	200 ppm
Respiratory protection	A-side - Isocyanate		B-side - Resin	
	Respirator selection must be based on contamination levels of this material found in the workplace and the working limits of the respirator.		Respiratory protection required in areas with insufficient ventalation.	
Hand, eye, skin, body protection	Wear eye/face protection, chemical resistant gloves, and suitable clothing. Eye wash system or showers should be available.			

9. PHYSICAL AND CHEMICAL PROPERTIES		
	A-side - Isocyanate	B-side - Resin
Physical state	Liquid	Liquid
Color	Dark Amber	Dark Amber
Odor	Mild, earthy, musty	Ether-like
pH	Not established	Not applicable
Melting point / freezing point	< 37F (<3C)	< 32F (0C)
Boiling point / range	>570F (>300C)	60F (15C)
Flash point	>482F (>250C)	>200F (93C)
Evaporation rate	Not established	Slower than ether
Upper / lower flammability or explosive limit	Not applicable	Not applicable
Vapor pressure	.00016mm Hg	Not applicable
Vapor density (air=1)	Not established	Not applicable
Relative density	1.24	1.09 g/ml
Solubility in Water (by weight)	Reacts with water	Slightly soluble
Auto-ignition temperature	Not applicable	>500F (260C)
Decomposition temperature	Not established	>500F (260C)

10. STABILITY AND REACTIVITY		
	A-side - Isocyanate	B-side - Resin
Stability/Instability	Polymerizes at approx 390F (200C) with evolution of CO <sub>2</sub>	Thermally stable at typical use temperatures
Possibility of hazardous reactions	Exothermic reaction with amines and alcohols; reacts with water forming CO <sub>2</sub> . In closed containers, risk of busting due to increase of CO <sub>2</sub> gas pressure	Not Applicable
Conditions to avoid	Avoid moisture	Temperatures over 80F (26C)
Incompatible materials	Water, alcohols, strong bases	Isocyanates and other chemicals that react with hydroxyl groups
Hazardous decomposition products	Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases / vapors	When burned, CO, CO <sub>2</sub> , NO <sub>x</sub> aliphatic fragments

11. TOXICOLOGICAL INFORMATION		
	A-side - Isocyanate	B-side - Resin
Acute toxicity	LC50: 490mg/kg, vapor, 4hr rat	May cause skin irritation
Chronic toxicity	2 years, inhalation: NOAEL: 0.2mg/m <sup>3</sup> , (rat, male/female, 6hrs/day 5 days/week	Not available
Likely routes of exposure	Skin, inhalation	Skin
Symptoms related to physical, chemical, and toxicological characteristics	Minor skin irritation, asthma-like symptoms	May cause skin irritation, avoid contact with eyes
Delayed and immediate effects and chronic effects from short and long-term exposure	Possible sensitization	Possible sensitization
Numerical toxicity measures	Not available	Not available

12. ECOLOGICAL INFORMATION		
	A-side - Isocyanate	B-side - Resin
Eco toxicity	LC0: >1,000mg/l (Zebra fish 96 hrs) LC0: >3,000mg/l (Killifish 96 hrs)	Not a marine pollutant
Persistence and degradability	0%	No known significant effects
Bio-accumulative potential	Does not bio-degrade	Does not bio-degrade
Mobility in soil	Not expected / Minimal	Not expected / Minimal

13. DISPOSAL CONSIDERATIONS		
	A-side - Isocyanate	B-side - Resin
Waste disposal - material	Incinerate or dispose of in a licensed facility. Do not discharge into sewer system	
Waste disposal - drums	Empty drums can be sent to a licensed drum reconditioner, scrap metal dealer, or approved landfill. Do not refill / reuse containers	
	Do not cut open with torch as toxic decomposition products may be generated	

14. TRANSPORTATION INFORMATION		
	A-side - Isocyanate	B-side - Resin
Land transport, USDOT	Not classified as a dangerous good	
Sea transport, IMDG	Not classified as a dangerous good	
Air transport, IATA/ICAO	Not classified as a dangerous good	
Marine pollutant	Not classified as a dangerous good	

15. REGULATORY INFORMATION		
	A-side - Isocyanate	B-side - Resin
Registration status	Chemical / TSCA, US / released / listed	
EPCRA 311/312 Hazard category	Accute, Chronic	Not hazardous
EPCRA 313	Refer to Section 3 "COMPOSITION INFORMATION-INGREDIENTS"	
CERCLA RQ	Quantity 5000 pounds CAS Number 101-68-8; 9016-87-9 Chemical name Diphenylmethane-4-4'-diisocyanate (MDI; P-MDI)	
CERCLA reportable quantity for release	13,157.9 pounds	
NFPA Hazard codes	Health: 2	Fire: 1    Reactivity: 1    Special:
HMIS III rating	Health: 2	Flamability: 1    Physical hazard: 1
California Proposition 65		THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
State RTK	State MA, NJ, PA CAS Number 101-68-8 Chemical name Diphenylmethane-4-4'-diisocyanate (MDI)	
State RTK	State MA, NJ, PA CAS Number 9016-87-9 Chemical name P-MDI	
Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial, local laws and regulations.		

16. OTHER INFORMATION	
Document effective date:	1-Apr-15
Revision date	
<b>NOTICES:</b>	
The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.	
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