# SAFETY DATA SHEET

Page E1 of E2

Section 1

Identification

#### INNOVATING SCIENCE<sup>®</sup> by Aldon 221 root 100 arrows 201 root 100 arrows

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

## CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

<ul> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P280: Wear protective gloves/protective clothing/eye protection</li> <li>P284: Wear respiratory protection</li> <li>P302+P362: IF ON SKIN: Wash with plenty of water and seep comfortable for the preating.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for the preating.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for the preating.</li> <li>P305+P331: If experiencing respiratory symptoms: Call a POISON CENTER of doctor.</li> <li>P305+P331: P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Respiratory sensitization (Category 2)</li> <li>CHS Label information: Hazard statement:</li> <li>H315: Causes skin irritation.</li> <li>H317: May cause anallergic skin reaction.</li> <li>H319: Causes serious eye irritation.</li> <li>H319: Causes serious eye irritation.</li> <li>H319: Causes analtergic skin reaction.</li> <li>H319: Causes analtergic skin reaction.</li> <li>H319: Causes and all ergic skin reaction.</li> <li>H319: Causes an</li></ul>	Product POLYURETHANE FOAM SYSTEM - PART A	
<ul> <li>Signal word: DANGER Pictograms: GHS08</li> <li>Target organs: Respiratory system, Eyes</li> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P272: Contaminated work clothing should not be allowed out of the workplace P280: Wear respiratory protection.</li> <li>P302+P332: IF ON SKIN: Wash with plenty of water and soap.</li> <li>P332+P332: If is kin irritation (Category 2)</li> <li>Acute toxicity (Category 1)</li> <li>Eye irritation. (Category 2)</li> <li>STOT-RE (Category 2)</li> <li>GHS Label information: Hazard statement:</li> <li>H315: Causes serious eye irritation.</li> <li>H315: Causes serious eye irritation.</li> <li>H319: Causes serious eye irritation.</li> <li>H332: Haw cause and largy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335: May cause damage to organs through prolonged or repeated exposure.</li> <li>Paint May cause damage to organs through prolonged or repeated exposure.</li> </ul>	Synonyms Mixed isocyanates	
<ul> <li>Pictograms: GHS08</li> <li>Target organs: Respiratory system, Eyes</li> <li>P260: Do not breather mist/vapours/spray.</li> <li>P30: P272: Contaminated work clothing and keep confortable for the workplace</li> <li>P30: P273: Harmful if inhaled.</li> <li>P33: May cause an alergic skin reaction.</li> <li></li></ul>	Section 2 Hazards identification	
<u>Hazards not otherwise classified:</u> Health hazards not otherwise classified (HHNOC) - Lachrymator	<ul> <li>Pictograms: GHS08</li> <li>Target organs: Respiratory system, Eyes</li> <li> <b>GHS Classification:</b> Skin irritation (Category 2) Skin sensitizer (Category 1) Eye irritation (Category 2) Acute toxicity (Category 4) Respiratory sensitization (Category 1) STOT-SE (Category 3) STOT-RE (Category 2) </li> <li> <b>GHS Label information: Hazard statement:</b> H315: Causes skin irritation. H317: May cause an allergic skin reaction. H322: Harmful if inhaled. H332: Harmful if inhaled. H335: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373: May cause damage to organs through prolonged or repeated exposure. </li> </ul>	<ul> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P272: Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P284: Wear respiratory protection.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water and soap.</li> <li>P333+P313: If skin irritation or rash occurs: Get medical attention.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313: If eye irritation persists: Get medical attention.</li> <li>P362+P364: Take off contaminated clothing and wash it before reuse.</li> <li>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405: Store locked up.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal agency in</li> </ul>

### Section 3 Composition / information on ingredients **Chemical Name** CAS # % EINECS Methylene bis phenylisocyanate 101-68-8 202-966-0 50% Polymeric diphenylmethane diisocyanate 9016-87-9 50% None assigned. Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. 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.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. 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 ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool. DO NOT GET WATER INSIDE CONTAINERS. Ventilate spill area. Eliminate all ignition sources.

**Specific Hazards:** During a fire, irritating and highly toxic gases 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 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Methylene bisphenyl isocyanate	TWA: 0.005 ppm / 0.051 mg/m <sup>3</sup>	STEL: C 0.02 ppm / C 0.2 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> / STEL: C 0.2 mg/m <sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAaved recoirator

approved respirate	01.						
Section 9	Physical and chemic	al properties					
<b>pH:</b> Data not avail	omatic odor. Data not available. lable. <b>g point:</b> Data not available 9.1°C (625°F)	Flammability Explosion lin Vapor pressu Vapor densit Relative densi	rate (=1): Data not a (solid/gas): Data not a nits: Lower / Upper: I ure (mm Hg): Data not y (Air = 1): Data not av sity (Specific gravity): ): Insoluble in water.	available. Data not available available ⁄ailable	Auto-igniti Decompos Viscosity: Molecular		: Data not available <b>re:</b> Data not available. le.
Section 10	Stability and reactivit	у					
Incompatible mat	y: Stable oid: Polymerization may occ terials: Water, alcohols, amin mposition products: Carbon	ur from contact with nes, strong bases.		or other materials co	Ū		
Section 11	Toxicological informa	ation					
Respiratory or sk Germ cell mutage Carcinogenity: D NTP: No compone IARC classified: G OSHA: No compo	ent of this product present at l Group 3: Not classifiable as to onent of this product present a	evels greater than or its carcinogenicity to t levels greater than	humans. [Methylene bi	isphenyl isocyanate] ntified as a carcinoge	n or potential	carcinogen by OS	SHA.
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dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

# SAFETY DATA SHEET

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Section 1

Identification

## INNOVATING SCIENCE<sup>®</sup> by Aldon 221 Roo

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

## CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information or	ingredients			
Chemical Name		CAS #	%	EINECS	
1,1,1,3,3-Pentafluo Tertiary amine cata		460-73-1 Not available	<10% <1%	None assigned None assigned	
Section 4	First aid measures				

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. 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.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. 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 ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Overheated containers may rupture due to pressure build-up.

### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling and storage

Form 06/2015

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Tertiary amine catalysts	TWA: 300 ppm	Not available	Not available

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirato							
Section 9	Physical and chemic	al properties					
Appearance: Brow Odor: Ethereal od Odor threshold: I pH: Data not avail Melting / Freezing Boiling point: 15. Flash point: Data	or. Data not available. able. point: Data not available 5°C (60°F)	Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	te (=1): Data not a solid/gas): Data not a s: Lower / Upper: D e (mm Hg): Data not (Air = 1): Data not av y (Specific gravity): Slightly soluble in wa	available. Data not available available railable 1.155	Auto-igniti Decompos Viscosity: Molecular		: Data not available re: Data not available. ele. e
Section 10	Stability and reactivit	ty					
Chemical stability Conditions to avo	/: Stable oid: Temperatures over 85°F		us polymerization:	May occur.			
Incompatible mat	erials: Isocyanates and othe	er chemicals that react	with hydroxyl groups.				
Hazardous decon	nposition products: Carbo	n oxides, nitrogen oxide	es, aliphatic fragments	s, halogens, halogen	acids and pos	sibly carbonyl ha	alides.
Section 11	Toxicological informa	ation					
IARC: No compon OSHA: No compor Ca Prop 65: This p	and not available ont of this product present at ent of this product present at nent of this product present a product does not contain any	t levels greater than or at levels greater than or	equal to 0.1% is identi equal to 0.1% is iden	ified as probable, pos tified as a carcinoger	ssible or confir n or potential o	rmed human card carcinogen by OS	
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IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.