Material Safety Data Sheet

Adurel AF15 foam adhesive part A

Date Prepared: 11/9/2006 Replaces: 9/14/2005 Page 1/4

Section 1: General Information

Chemical Family: Adhesive **Emergency Phone: CHEMTREC(800) 424-9300**

Section 2: Molecular Composition			
Common Name and Chemical	Exposure Limit	Weight %	CAS Number
Polyurethane Polymer		35.0-70.0	Trade Secret
Methylenebis(phenylisocyanate) (MDI)	See Below	8.5-18.0	101-68-8
Weinyteneois(phenytisoeyanate) (WDI)	ACGIH: TLV: 0.005		101-00-0
	OSHA PEL: C 0.2 n		
		$0.05 \text{ mg/m}^3 (0.005 \text{ pj})$	a m)
	$C 0.2 \text{ mg/m}^3 (0.02)$		
	IDLH: 75 mg/m ³	to ppin) 10-minute	
Delumenia dinhanulmathana diisaawanata (r		05100	0016 97 0
Polymeric diphenylmethane diisocyanate (p	•	8.5-18.0	9016-87-9
Methylene Bis (phenylisocyanate) isomers	See Below	<1.0	26447-40-5
ACGIH: TLV: 0.005 ppm; as TWA			
OSHA PEL: C 0.2 mg/m^3 (0.02 ppm)			
NIOSH REL: TWA 0.05 mg/m ³ (0.005 ppm) C 0.2 mg/m ³ (0.020 ppm) 10-minute			pm)
	IDLH: 75 mg/m ³		
Saction	n 2. Hazardana Haalth	Effects	

Section 3: Hazardous Health Effects

Aggravated Health Effects

Potential Health Effect/Route of Entry

Inhalation of Particulates (spraying) and Fumes: Irritation, coughing spell, wear mask if spraying, and allergic respiratory sensitization.

Eyes: Irritation

Ingestion: Can cause gastrointestinal irritation.

Skin: Can cause irritation, Dermatitis

Acute Health Effects: See Above in inhalation of particles and fumes

Section 4: First Aid Measures

Inhalation: Leave area to breathe fresh air. Oxygen therapy may be necessary, seek medical attention if needed. Should be observed by physician immediately if overexposure is severe.

Eyes: Flush immediately with running water for 15 minutes, lifting the upper and lower lids occasionally. Get medical attention immediately.

Ingestion: Get medical attention immediately. Do not induce vomiting unless advised by a physician.

Skin: Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.



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Section 5: Fire Fighting Measures

Flash Point:	>350 F (177 ⁰ C)
Method:	PM cc
Lower Flammability Limit:	N/A
Upper Flammability Limit:	N/A
Auto Ignition Temperature:	Not Established
Extinguishing Media:	CO ₂ foam, dry chemical
Fire and Explosion Hazards:	N/A

Special Fire Fighting Procedures:

During a fire, personnel at the scene are to avoid exposure to fumes using accepted fire fighting techniques. Wear proper firefighting gear including but not limited to SCBA

Products of Combustion: Hydrocyanic acid, oxides of nitrogen can form, carbon monoxide, carbon dioxide, and other hydrocarbons

Other Precautions: None

Section 6: Accidental Release Measures

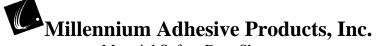
Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal. Follow all local, state, federal, and provincial regulations for disposal of the spilled material.

Section 7: Handling and Storage

Handling and Storage Precautions:

Store under normal warehouse conditions, and keep away from excessive heat. Prevent ingestion, and contact with skin and eyes. Keep container closed when not in use, because it will cure when exposed to atmospheric moisture. Wear chemical resistant gloves when handling.

Section 8: Physical and Chemical Properties		
Odor	Nagligible	
	Negligible	
Color:	Amber	
Physical State:	Viscous Liquid	
PH:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Boiling Point	N/A	
Melting Point	N/A	
Freezing Point	N/A	
Solubility in Water	Insoluble, reacts with water	
Specific Gravity	1.15	
% Volatile	<0.15%	



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	Section 9: Reactivity/ Stability
Stability:	Stable
Incompatible Products:	Avoid contact with water, acids, bases, alcohols, and metal compounds.
Conditions to Avoid Polymer	ization: Hazardous polymerization will not occur.
	Section 10: Toxicological Information
Eyes:	See Section 3
Ingestion:	" "
Inhalation:	" "
Skin:	" "
Subchronic:	" "
Chronic	
	Section 11: Ecological Information
Ecotoxicological Data:	N/A
Chemical Fate:	N/A
	Section 12: Disposal Considerations
RCRA Class:	N/A
Disposal Method:	Not regulated by RCRA. Dispose of in compliance with state, local, federal and provincial regulations.
EPA Reportable Quantities	N/A
	Section 13: Transportation Data
DOT Shinning Name	Net Demileted
DOT Shipping Name:	Not Regulated
DOT Hazard Class:	N/A N/A
UN/NA Number:	N/A N/A
Packaging Class:	N/A 5000 L ha Mathedanahia(ahamdiaaananata) (MDL)
Reportable Quantity (RQ)	5000 Lbs Methylenebis(phenylisocyanate) (MDI)
	Section 14: Regulatory Information
TSCA Status On the	TSCA Inventory
OSHA Status: Consic Irritant	lered hazardous based on the following criteria:



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Sensitizer		
Target Organs: Liver, Blood, R	eproductive, Lung, Skin, Spleen	
OSHA Hazardous Components	CAS Number	
Methylenebis(Phenylisocyanate) (MD		
6	n with NTP, ACGIH, or IARC.	
Not regulated as a carcinoger		```
Classified by IARC in Group	3 (not classifiable as to its carcinogenicity to hum	ans)
Compliance Quantities		
N/A		
SARA 311 Ratings		
Immediate Health Hazard	Y	
Delayed Health Hazard	Y	
Fire Hazard	Ν	
Reactivity Hazard	Ν	
Sudden Release of Pressure Hazard	Ν	
SARA 313 Ingredients	CAS Number	
Methylene Bis (phenylisocyanate)	101-68-8	
Proposition 65 Ingredients (Chemical	s known to the State of California to cause cancer of	or birth defects or other
reproductive harm): None		

Adurel AF15 foam adhesive part A

WHMIS CODES: A/2/D, B/2/D

Section 15: Other Information

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. THE HAZARD INFORMATION HEREIN IS OFFERED SOLELY FOR THE CONSIDERATION OF THE USER, SUBJECT TO HIS OWN INVESTIGATION OF COMPLIANCE WITH APPLICABLE REGULATIONS, INCLUDING THE SAFE USE OF THE PRODUCT UNDER EVERY FORSEEABLE CONDITION THE MANUFACTURER AND DISTRIBUTER TAKE NO RESPONSIBILITY FOR THE IMPROPER USE OF THIS PRODUCT.

Material Safety Data Sheet

Adurel AF15 foam adhesive part B

Date Prepared: 11/9/2006 Replaces: 9/14/2005 Page 1/4

Section 1

Chemical Family: Adhesive **Emergency Phone: CHEMTREC(800) 424-9300**

Section 2: Molecular Composition			
Common Name and Chemical Name	Exposure Limit	Weight %	CAS Number
Polypropylene Glycol	Not Listed	90.0-99.0	25322-69-4
Polyether Polyol	Not Listed	1.5-10.0	Not Listed
Tertiary Amines	Not Listed	0.5-4.0	Not Listed
Section 3. Hazardous Health Effects			

Aggravated Health Effects Potential Health Effect/Route of Entry Inhalation of Particulates (spraying) and Fumes: Irritation, coughing spell, wear mask if spraying, and allergic respiratory sensitization. Eyes: Irritation Ingestion: Can cause gastrointestinal irritation. Skin: Can cause irritation, Dermatitis Acute Health Effects: See Above at inhalation of particles and fumes

Section 4- First Aid Measures

Inhalation: Leave area to breathe fresh air. Should be observed by physician immediately if overexposure is severe. Oxygen therapy may be necessary, seek medical attention if needed.

Eyes: Flush immediately with running water for 15 minutes, lifting the upper and lower lids occasionally. Get medical attention immediately.

Ingestion: Get medical attention immediately. Do not induce vomiting unless advised by a physician.

Skin: Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Material Safety Data Sheet

Adurel AF15 foam adhesive part B

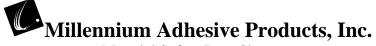
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	Section 5- Fire Fighting Measures	
Flash Point:	$>350 \text{ F} (177^{\circ}\text{C})$	
Method:	PM cc	
Lower Flammability Limit:	N/A	
Upper Flammability Limit:	N/A	
Auto Ignition Temperature:	Not Established	
Extinguishing Media:	Water, foam	
Fire and Explosion Hazards:	N/A	
Constal First Fielding Day of Land		
Special Fire Fighting Procedures		C C 1
• •	at the scene are to prevent exposure to fumes using accepted	fire fighting
techniques.		
Products of Combustion:		
	a af aitmeann ann fanns and an manarida, annh an diarida, an	-1 - 41
	es of nitrogen can form, carbon monoxide, carbon dioxide, and	u otner
hydrocarbons		
Other Precautions: None		
	Castion (Assidents] Dalassa Massures	
	Section 6- Accidental Release Measures	

Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal. Follow all local, state, federal, and provincial regulations for disposal of the spilled material.

Section 7- Handling and Storage

Handling and Storage Precautions: Store under normal warehouse conditions, and keep away from excessive heat. Prevent ingestion, and contact with skin and eyes. Keep container closed when not in use, because it will cure when exposed to atmospheric moisture. Wear chemical resistant gloves when handling.

Section 8- Physical and Chemical Properties	
Odor:	Negligible
Color:	Off white
Physical State:	Viscous Liquid
PH:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Boiling Point	N/A
Melting Point	N/A
Freezing Point	N/A
Solubility in Water	N/A
Specific Gravity	1.00
% Volatile	<0.15%
	Section 9- Reactivity/ Stability



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Date Prepared: 11/9/2006 Replaces: 9/14/2005		Page 3/4
Stability: Stable		
Incompatible Products:	Avoid contact with water, acids, bases, alcohols, and metal compounds	5.
Conditions to Avoid Poly	merization: Hazardous polymerization will not occur.	
	Section 10- Toxicological Information	
Eyes Ingestion: Inhalation: Skin: Subchronic: Chronic	See Section 3 """ "" " "	
	Section 11- Ecological Information	
Ecotoxicological Data:	N/A	
Chemical Fate:	N/A	
	Section 12- Disposal Considerations	
RCRA Class:	N/A	
Disposal Method: provincial reg	Not regulated by RCRA. Dispose of in compliance with state, local, fegulations.	ederal, and
EPA Reportable Quantitie	es N/A	
	Section 13- Transportation Data	
DOT Shipping Name: DOT Hazard Class: UN/NA Number: Transportation Notes:	Not Regulated Not Applicable N/A N/A	
	Section 14- Regulatory Information	
TSCA Status:	On the TSCA Inventory	
OSHA Status:	Considered hazardous based on the following criteria: Irritant, Sensi	tizer
Target Organs:	Lung, Skin	

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OSHA Hazardous Components None	CAS Numb	er
SARA 311 Ratings		
Immediate Health Hazard	Ν	
Delayed Health Hazard	Ν	
Fire Hazard	Ν	
Reactivity Hazard	Ν	
Sudden Release of Pressure Hazard	Ν	
SARA 313 Ingredients CAS Num	ber None	

Adurel AF15 foam adhesive part B

Proposition 65 Ingredients: Chemicals known to the State of California to cause cancer or birth defects or other reproductive harm: NONE

WHMIS CODES: A/2/D

Section 15- Other Information

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