

MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identification					
Company Identification ADHESIVES TECHNOLOGY CORP. 450 East Copans Road Pompano Beach, FL 33064			Emergency Phone (800) 255-3924 (24 hours) CHEM-TEL Contact Phone (800) 892-1880 (9:00 a.m. – 5:00 p.m. EST)		
Effective Date: 03/16/11		Print Date: 03/16/11		MSDS #: LR321	
Product Name: Crackbond LR-321			Prepared By: Richard Boland (x107)		
Section 2 – Composition/Information on Ingredients					
Part A: Hazardous Component	CAS #	% By Weight	PEL	TLV	STEL
Diglycidyl Ether of Bisphenol A	25085-99-8	> 50%	NE	NE	NE
Alkyl Glycidyl Ether	68609-97-2	< 50%	NE	NE	NE
Part B: Hazardous Component	CAS #	% By Weight	PEL	TLV	STEL
n-aminoethylpiperazine	140-31-8	> 10%	NE	NE	NE
Triethylenetetramine	112-24-3	< 10%	NE	NE	NE
Cycloaliphatic Amine	Proprietary	< 10%	NE	NE	NE
Nonyl phenol-	84852-15-3	< 35%	NE	NE	NE
Polyamido Amine	68605-86-7	> 35%	NE	NE	NE
Section 3 – Hazards Identification					
Known Hazards: Part A: Skin and eye irritation. Sensitizer; Part B: Corrosive					
Signs and Symptoms of Exposure: Part A: Eyes: Irritation. Corneal injury is not expected. Skin: Irritation. Can cause allergic skin reactions in susceptible individuals, e.g. itching, redness, swelling, etc. Inhalation: No ill effects expected. Heated vapors can cause irritation. Part B: Eyes: Irritation. Possible eye burns. Skin: Can cause irritation and skin burns. Inhalation: No ill effects expected. Heated vapors can cause irritation.					
Medical Conditions Aggravated by Exposure: Skin, eye, and respiratory conditions					
Routes of Exposure: Dermal. Inhalation.					
Carcinogenicity: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.					
Section 4 – First Aid Measures					
Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.					
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.					
Skin: Wash with mild soap and water. Launder contaminated clothing before reuse.					
Ingestion: If conscious, give plenty of water; do not induce vomiting unless directed to by a physician. Call a physician.					
Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If Sensitization occurs, future contact with the material should be avoided.					
Section 5 – Fire Fighting Measures					
Flash Point: > 200° F			Flammable Limits: N/A		
Extinguisher Media: Carbon Dioxide, Dry Chemical, Water Spray, Foam					
Special Fire Fighting Procedures: Use a self-contained breathing apparatus when fighting fires involving chemicals.					
Unusual fire and Explosion Hazards: None known. Thermal decomposition products can be formed.					
Section 6 – Accidental Release Measures					
Avoid all personal contact, scoop up with spade and place in disposable metal container. Flush contaminated areas.					
Section 7 – Handling and Storage					
Avoid contact with eyes, skin and clothing. Avoid prolonged inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Store in a cool dry place out of direct rays of the sun. Keep from freezing. Recommended storage temperature range in between 40° and 95° F.					
Section 8 – Exposure Control/Personal Protection					

Respiratory Protection: None normally required. Use a NIOSH –approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.					
Ventilation: General (natural or mechanical induced fresh air movements)					
Eye Protection: Wear splash proof chemical goggles					
Protective Gloves: Cloth or impermeable (neoprene or rubber) gloves					
Other Protective Clothing or Equipment: Wear appropriate apparel to prevent skin contact					
Section 9 – Physical and Chemical Properties					
Appearance: Part A: Clear Liquid; Part B: Amber Liquid			Specific Gravity: Part A: 1.13; Part B: 0.96		
Odor: Part A: Slight Odor; Part B: Slight Amine Odor			pH: N/D		
Boiling Point: N/A			Vapor Density: N/A		
Vapor Pressure: N/A			VOC Content: N/A		
Solubility in Water: Insoluble			Evaporation Rate: N/A		
Section 10 – Stability and Reactivity					
Hazardous Polymerization: Will not occur			Stability: Stable		
Incompatibility: Strong acids, peroxides, and other oxidizing agents					
Hazardous Decomposition Products: Thermal decomposition can yield CO, CO ₂ and organic Nitrogen compounds.					
Conditions to Avoid: Exposure to excessive heat and storage above 95° F will shorten shelf life					
Section 11 – Toxicological Information					
For detailed toxicological information on the components of this material, contact the address listed in Section 1 of this MSDS.					
Section 12 – Disposal Considerations					
If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.					
Section 13 – Transport Information					
DOT Shipping Information: CARTRIDGE - Consumer commodity, ORM-D BULK: Corrosive Liquids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1760, PG III.					
ICAO Shipping name: CARTRIDGE: Corrosive Liquids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1760, PG III, Ltd Qty. BULK: Corrosive Liquids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1760, PG III.					
IATA Shipping name: CARTRIDGE & BULK: Corrosive Liquids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1760, PG III.					
Section 14 – Regulatory Information					
Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.					
EPA Waste Code(s): Not regulated by EPA as a hazardous waste					
SARA Title III, Section 313: This product contains no chemicals which are subject to reporting under Section 313 of SARA Title III					
HMIS Rating	Part A	Part B	NFPA Hazard Rating	Part A	Part B
Health	1	2	Health	1	2
Flammability	1	1	Flammability	1	1
Reactivity	0	0	Reactivity	0	0
PPE	B	B			
TSCA Inventory Status: Chemical components listed on TSCA inventory					
Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. C = Ceiling. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. ppm = parts per million					
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