

## **MATERIAL SAFETY DATA SHEET**

Section 1 – Product and Company Identification									
Company Identification		hone CHEM-T							
ARDEX Engineered Cements, Inc.	(800) 255-3924 (24 hours) or call collect 1-813-248-0585								
400 Ardex Park Drive	Contact Phon								
Aliquippa, PA 15001	724-203-8499	) (9:00 a.m. –	5:00 p.m. ES	ST)					
(888) 512-7339									
Effective Date: July 1, 2010									
Product Name: ARDEX ARDISEAL RAPID PLUS Prepared By: Richard Boland									
Section 2 – Composition/Information on Ingredients		· · · · · · · · ·		I					
Part A: Hazardous Component (chemical & common name)	CAS No.	% By Weight	PEL	TLV	STEL				
4,4' Diphenylmethane Diisocyanate	101-68-8	10% – 25%	0.005ppm	0.005ppm	NE				
Part B: Hazardous Component (chemical & common name)	CAS No.	% By Weight	PEL	TLV	STEL				
Di (methylthio) Toluene Diamine	106264-79-3	7% – 20%	NE	NE	NE				
Section 3 – Hazards Identification	•								
Known Hazards: Part A: Skin and eye irritation. Sensitizer; Part B: Skin and eye irritation.									
Signs and Symptoms of Exposure: Part A: Eyes: Irritation, redness, tearing and blurred vision. 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, redness, tearing and									
blurred vision. Possible eye burns. Skin: Can cause irritation	and skin burr	s. Inhalation:	No ill effect	s expected.	Heated				
vapors can cause irritation.									
Medical Conditions Aggravated by Exposure: Skin, eye, and	nd respiratory	conditions							
Routes of Exposure: Dermal. Inhalation.									
Carcinogenicity: See Section 11 – Toxicological Information									
Section 4 – First Aid Measures									
Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.									
<b>Eyes:</b> Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician as soon as possible.									
Skin: Wash with mild soap and water. Launder contaminated clothing before reuse.									
Ingestion: Seek Medical attention immediately.									
<b>Other:</b> 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: Non-Flammable liquids	Flammable	Limits: N/A							
Extinguisher Media: Foam, CO <sub>2</sub> , Dry Chemical, or Water Fog									
Special Fire Fighting Procedures: Firefighters must wear se	elf-contained b	reathing appa	ratus and fu	Il protective	clothing				
to prevent contact with toxic and/or irritating fumes. Do not s									
burning liquid can cause frothing.									
Unusual fire and Explosion Hazards: Contamination of "IS	SO" componen	t with water w	ill generate	carbon diox	ide gas				
with possible pressure build up in confined areas. Incompl	lete combustic	on may produ	ce carbon i	monoxide.	"POĽY'				
container my rupture due to pressure rise. Both "ISO" and "POLY" should not explode from mechanical impact.									
Containers exposed to intense heat rises should be cooled with water to prevent vapor pressure build up which could									
result in container rupture.									
Section 6 – Accidental Release Measures									
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPIL									
personnel should wear self-contained breathing apparatus. Cover spills with sawdust, vermiculite, or other absorbent									
material to minimize spreading of the material before collecting. Do not heat or cut empty containers with electric or gas									
orch. "ISO" component must be neutralized with an equal volume of a 6% ammonia solution in water and allowed to react									
for 10 minutes. Collect into open containers and add more solu	ution. Cover lo	osely to vent c	arbon dioxid	le gas gener	ated.				
Section 7 – Handling and Storage	<u> </u>		11 14						
Handling: Avoid contact with eves, skin and clothing. Avoid pr	olonged inhala	tion of vapors.	. Use with a	idequate ver	tilation				

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged inhalation of vapors. Use with adequate ventilation.



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Wash thoroughly after handling. Storage: Store in a cool dry place away from direct sunlight. 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 self contained breathing apparatus in enclosed areas.							
Ventilation (Local Exhaust): Mechanical							
Eye Protection: Safety goggles or face shield							
Protective Gloves: Chemical resistant plastic or rubber gloves.							
Other Protective Clothing or Equipment: Wear appropriate apparel to prevent skin contact. Eye bath and safety shower							
should be available.							
Section 9 – Physical							
Appearance: Part A	Appearance: Part A: Amber Liquid Part B: Gray Liquid Specific Gravity (g/cc): Part A: 1.09; Part B: 1.04			y (g/cc): Part A: 1.09; Part B: 1.04			
Odor: Part A: Slight	Odor; Part B: Slight	Amine Odor	pH: N/D				
Boiling Point:	A: >405°F	B: >500°F	Vapor Density:	apor Density: N/A			
Vapor Pressure:	A: 4mmHg at 121°C	B: 4mmHg a	at 121°C	<b>VOC Content:</b> 7.84 g/l (when mixed)			
Solubility in Water:	A: Reacts	B: Slight	Evaporation Ra	ate: N/A			
Section 10 – Stability	y and Reactivity						
Hazardous Polymeri	zation: "ISO" compo	nent reacts slowly w	ith water to produ	ct carbon dioxide gas. Stability: Stable			
Incompatibility: "A component (ISO)" reacts with water, alcohol, carboxylic acids, amines and ammonia. "B Component							
(POLY)" avoid contact							
Hazardous Decomposition Products: Incomplete burning may produce nitrogen oxides, hydrogen cyanides, carbon							
monoxide, and/or carb							
		mes. Exposure to ex	cessive neat and	storage above 95° F will shorten shelf life			
Section 11 – Toxicological Information							
The International Isocyanate Institute is currently sponsoring a lifetime study on polymeric MDI in rats for carcinogenicity.							
Monomeric MDI is positive for mutagenicity in the Ames assay. Oral LD50 (rats) is greater than 15800 mg/Kg. Dermal LD50 (rabbits) is greater than 7900 mg/Kg. Inhalation LC50 (rats – 2hr) is greater than 400 mg/M3 on dust of monomeric							
MDI. Harmful or fatal if swallowed. Vapor harmful. May cause skin or eye irritation. KEEP OUT OF REACH OF CHILDREN							
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: NOT DOT REGULATED – NON HAZARDOUS							
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							
HMIS Codes: A: Health 2, Flammability 1, Reactivity 1, PPE B; B: Health 1, Flammability 1, Reactivity 0, PPE I							
SARA Title III, Section 313: This product contains less than 26% of 4,4' Diphenylmethane Diisocyanate which is subject to reporting under Section 313 of SARA Title III							
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							
To the best of our knowledge, the information contained herein is accurate. However, Adhesives Technology Corp. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.							