

MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identificati	on				
Company Identification ARDEX Engineered Cements 400 Ardex Park Dr. Aliquippa, PA 15001		Emergency Phone (800) 255 – 3924 or (813) 248 – 0588 Contact Phone for produ (724) 203-5000 (9	call collect)		
Effective Date: 7/19/2012	Print Date: 7/19/2012		MSDS #: ARD	IFIX	
Product Name: ARDEX ARDIFIX					
Section 2 – Composition/Information on Ingre	edients				
Part A: Hazardous Component	CAS #	% By Weight	PEL	TLV	STEL
Polymeric MDI	9016-87-9	30 - 60%	0.02 ppm	0.005 ppm	NE
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	15 - 40%	NE	NE	NE
4,4'-Diphenylmmethane Diisocyanate	101-68-8	10 - 30%	0.02 ppm	0.005 ppm	NE
Part B: Hazardous Component	CAS #	% By Weight	PEL	TLV	STEL
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	30 - 60%	NE	NE	NE
N,N,N',N'-Tetrakis (2-Hydroxylpropyl)Ethylenedia	amine 102-60-3	10 - 30%	NE	NE	NE
Polyether Triol	25791-96-2	2 10 - 30%	NE	NE	NE
1,4-Butanediol	110-63-4	3.0 - 7.0%	NE	NE	NE
Section 3 – Hazards Identification					

Part A: Danger! Harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Respiratory and Skin Sensitizer. Contains isocyanates. Part B: Danger! Corrosive. May cause skin or eye burns. Harmful if swallowed. Skin Sensitizer. May cause respiratory or digestive tract irritation. Vapors may cause drowsiness or dizziness.

WHMIS Hazard Symbols Required on Product Label: Part A





Signs and Symptoms of Short-Term (Acute) Exposure:

Part A: Inhalation - May cause severe irritation to the nose, throat, and respiratory tract. Symptoms may include burning sensation, coughing, shortness of breath, wheezing, and reduced lung function. Persons with a pre-existing, nonspecific bronchial hypersensitivity can respond to concentrations below the exposure limits or guidelines with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the exposure limits or guidelines may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Symptoms may be delayed several hours. Skin - Causes irritation with symptoms of reddening, itching, and swelling. Can cause sensitization. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Eyes - Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor may cause irritation with symptoms of burning and tearing. Ingestion -May cause irritation to the mouth, throat, and stomach. Symptoms may include pain, vomiting, and diarrhea.

Part B: Inhalation - May cause drowsiness or dizziness. Skin - May cause severe skin irritation or burns. Eyes .- May cause severe eye irritation or burns, possibly resulting in permanent damage or blindness. Ingestion - May cause pain, vomiting, and diarrhea.

Effects of Long-Term (Chronic) Exposure:

Part A: Inhalation - As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to diisocyanates or polyisocyanates at levels well below the exposure limits or guidelines. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be delayed up to several hours after exposure. Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and chronic bronchitis sufferers) should avoid handling this product. Skin - Prolonged skin contact can cause reddening, swelling, rash, and, in some cases, skin sensitization.

Part B: Repeated ingestion of large amounts of this material may cause severe kidney, liver and gastrointestinal effects. Symptoms of excessive overexposure may be central nervous system effects, nausea, vomiting, and anesthetic or narcotic effects.

Medical Conditions Aggravated by Exposure: Pre-existing skin, eye, and respiratory disorders.

Routes of Exposure: Dermal, Inhalation, ingestion

Carcinogenicity: Neither MDI nor polymeric MDI are listed by the NTP, IARC, or regulated by OSHA as carcinogens.

Section 4 – First Aid Measures

Section 4 -	
Inhalation:	Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.
Eyes:	Flush with copious amount of water, preferable lukewarm water for at least 15 minutes, holding eyelids open all the time. Refer
	individual to physician or ophthalmologist for immediate follow up.
Skin:	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before
	reuse. For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposures,
	seek medical attention if irritation develops or persists after the area is washed.
Ingestion:	DO NOT INDUCE VOMITING. Give 1 – 2 cups of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN
-	UNCONSCIOUS PERSON. Consult a physician immediately.
Inhalation:	Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as necessary. Obtain medical attention.
	Asthmatic type symptoms may develop and may be immediate or delayed up to several hours. Consult physician should this occur.
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	t: Part A: 390°F /199°C. Part B: 265°F / 129°C Extinguisher Media: Dry Chemical; Carbon Dioxide; Foam; Water Spray for large fires

Special Fire Fighting Procedures: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustions (see stability



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and reactivity). At temperatures gre			
	ater than 400°F (204°C), isoc	cyanates can polymerize and decompose which	can cause pressure build-up in closed
		ater to cool fire-exposed containers.	
		decomposition products can be formed.	
Section 6 – Accidental Release M			
		water system; wear full protective equipment, in	ncluding respiratory equipment during
clean-up. Large quantities may be		realed, containers for disposal.	sport to well ventilated area (outside)
. ,		I for 48 hours to let CO_2 gas escape.	sport to well-ventilated area (outside)
Clean up: Decontaminate floor with			
Section 7 – Handling and Storage	· •		
		sols, or vapors. Avoid prolonged inhalation of va	apors. Use with adequate ventilation.
		iners in a cool dry place out of direct rays of	
		65°F /18°C and 85° F / 29°C. DO NOT EXCEED	
Section 8 – Exposure Control/Pe	rsonal Protection		
		hing mist or vapors. Avoid contact with eyes, ski	
		gest. Do not eat, drink, or smoke in areas whe	
		goggles. Promptly remove clothes that have bee	
		as been contaminated with Part B before reu	
for use. Wash thoroughly after hand		s product. Protect from moisture. Keep containe	ir tightly closed and sealed until ready
		isocyanate levels below the TLV or PEL. If mon	itoring determines that the isocvanate
levels exceed the TLV or PEL, or a			toning determines that the loopyahate
		or PEL can occur when isocyanates are sprayed	, heated or used in a poorly ventilated
area. In such cases, or whenever of	concentrations of isocyanate	exceed the TLV or PEL, or isocyanate levels are	unknown, respiratory protection such
		an organic vapor cartridge and particulate pre-f	
	CFR 1910.134). Respirator	users should be individually fit tested before u	using in an environment with high or
unknown levels of isocyanates.	f ala and and a second a second	and the standard of the second standard standard standards and standards and standards at the second standard standards at the second standards at the	
		resistant goggles should be worn when contact I	enses are in use. In a splash hazard
environment chemical goggles sho		nitria rubber, polyvinyl alcohol). However, plea	as note that DVA degrades in water
Cover as much of the exposed skin			ase note that FVA degrades in water.
		Nonitoring of airborne isocyanates in the breathi	ng zone of individuals should become
		. Monitoring techniques have been developed by	
	· •	io handle or come in contact with isocyanates is	
		oparel to prevent skin contact. Safety showers &	
Section 9 – Physical and Chemic	<u> </u>		oyonaon etalene enedia se avaliasie.
Physical Form: Part A: Liquid	Part B: Liquid	Specific Gravity (g/cc): Part A: 1.069 Part B	:103
Color: Part A: Light yellow	Part B: Blue-Gray	Freezing Point: Part A: Below 32°F /0°C for M	
	I: Part A: N/D	Boiling Point: Part A: 406°F. (209°C)	
Part B: Slight	Part B: N/D	Part B: Not determined	VOC Content: 0 g/L
	le. Reacts slowly with water t	o liberate CO ₂ gas; Part B: Slightly soluble	Evaporation Rate: Non-volatile
		5°C) for MDI; Part B: 0.1 mm Hg @ 77°F (25°C)	Vapor Density: 8.5 (MDI) (Air = 1)
Section 10 – Stability and Reactiv			
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,	vity y occur. Contact with moist	ure or other materials which react with isocya	nates or temperatures above 400°F
Hazardous Polymerization: Ma (204°C), may cause polymerization	vity y occur. Contact with moist h. Stability: Stable	· · · · · ·	
Hazardous Polymerization: Ma (204°C), may cause polymerization Incompatibility: Water, amines, s	vity y occur. Contact with moist n. Stability: Stable strong bases alcohols. Will ca	ure or other materials which react with isocya	ım.
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MATERIAL SAFETY DATA SHEET

SARA Title III:					
	Extremely Hazardous Substa				
	312 Hazard Categories: Par			Health Hazard, Delayed	Health Hazar
	Toxic Chemicals: Part A: No		Part B: None	own to the State of Co	lifornia to
	r reproductive harm.	iowiedge, this produc	ct does not contain any chemicals kr	IOWIT TO THE STATE OF CA	illomia lo
	•				
Canadian Regulatio					
			Product. It meets one or more of the cr	iteria for a controlled pro	duct provided
	led Products Regulations (C	PR). It is classified as			
Part A			Part B		
Class D1B (Toxic Ma	,	- Maria Tanàn Mataniak	Class D2B (Skin and Eye Irritant))	
	Causing Other Toxic Effect				
his product has bee	n classified according to the				
		nazaru chiena or the	CPR. The MSDS contains all of the in	formation required by th	e CPR.
•			ents listed appear on the Domestic Su		e CPR.
Canadian Environme	ntal Protection Act (CEPA)				e CPR.
Canadian Environme Section 16 – Other I	ntal Protection Act (CEPA)				Part B
Canadian Environme Section 16 – Other I HMIS Rating	ntal Protection Act (CEPA)	nformation: All ingredi	ents listed appear on the Domestic Su	bstances List (DSL).	
Canadian Environme Section 16 – Other I HMIS Rating Health	ntal Protection Act (CEPA)	nformation: All ingredi Part B	ents listed appear on the Domestic Su NFPA Hazard Rating	bstances List (DSL). Part A	Part B
Canadian Environme Section 16 – Other I HMIS Rating Health Flammability	ntal Protection Act (CEPA)	nformation: All ingredi Part B 0	ents listed appear on the Domestic Su NFPA Hazard Rating Health	bstances List (DSL). Part A	Part B
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Canadian Environme Section 16 – Other I HMIS Rating Health Flammability Reactivity PPE	ntal Protection Act (CEPA) nformation Part A 2 1 0 B	nformation: All ingredi Part B 0 0 1 0 1 0	ents listed appear on the Domestic Su NFPA Hazard Rating Health Flammability Reactivity	Part A 2 1 1	Part B 2 1 1

To the best of our knowledge, the information contained herein is accurate. However, ARDEX Engineered Cements 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.