SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

:	ARDEX	100% Solids	Ероху	Adhesive	Part B	(Hardener)	
	70046451					. ,	

: 70046451

: ARDEX 100% Solids Epoxy Adhesive Hardener

: High performance 100% Solids Epoxy Adhesive for all types of tile and stone.

: Use only as recommended in the product's Technical Data Sheet.

Manufacturer's name and address:



Material Use

Product Identifier Product Code Number

Trade Name/Synonyms

Uses Advised Against

ARDEX L.P. 400 Ardex Park Dr. Aliquippa, PA 15001 USA

Canadian Importer's name and address



ARDEX Canada, Inc. 44 Chipman Hill Suite 1000 Brunswick House Saint John, NB E2L 2A9 CANADA 905-673-2739 (office), Information only. 613-282-7964 (cell), Information only. See emergency number below.

Information Telephone No. Website Address 24 Hr Emergency Telephone #

: 1(888)-512-7339 or 1(724) 203-5000 : http://www.ardexamericas.com

Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

	0.1200 (OSHA HCS 2012) and HPR (WHMIS 2015) Skin Corrosion/Irritation, 1 Eye Corrosion/Irritation, 1 Skin Sensitization, 1
GHS Pictograms :	
Signal Word :	Danger
Hazard Statements :	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary Statements	Do not breathe dust/vapors. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not subject to grinding. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.
	Under normal conditions of use, this product will not generate airborne dust. Avoid operations such as grinding, sanding or sawing that produce airborne dust.
Hererdo Net Otherwise Specified	Nene

Hazards Not Otherwise Specified : None.

% Unknown acute toxicity

: 90% by weight of this product consists of ingredients with unknown acute inhalation toxicity. 60% by weight of this product consists of ingredients with unknown acute oral and dermal toxicities.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)	
Crystalline silica, quartz	14808-60-7	60 – 100	
Triethylenetetramine	112-24-3	10 – 30	
Polyamide resin	68410-23-1	1 – 5	
Hydrophobic silica	67762-90-7	1 – 5	
Aminoalkoxysilane	1760-24-3	1 – 5	
Isophoronediamine	2855-13-2	1 – 5	
Titanium dioxide, TiO ₂	13463-67-7	1 – 5	

Exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : IF exposed or concerned: Get medical advice/attention. Inhalation : Remove the person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Skin contact : Remove/Take off immediately all contaminated clothing. Rinse SKIN with soap and water/shower. IF SKIN irritation or rash occurs, get medical advice/attention. Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Notes for Physician : Treat symptomatically. Signs and symptoms of short-term (acute) exposure Inhalation Inhalation : Symptoms may include coughing or irritation. Skin : Direct contact to the eyes can cause chemical burns, corneal damage, and possibly blindness. Exposure to low vapor concentrations may cause swelling (edema) of the eyes, resulting in blurring of vision with a bluish haze and/or appearance of halos around lights. Ingestion : May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, and bleeding. Effects of long-term (chronic) exposure : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Some individuals may experience a sensitization reaction of the skin after an initital exposure. Subse						
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SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Hazardous combustion products

- : Water fog/mist, dry chemical, carbon dioxide, foam.
- : High pressure water jet may spread the fire.
- : Carbon monoxide carbon dioxide, nitrogen oxides and other vapors and toxic gases.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Corrosive! See Section 7 for safe handling procedures. Wear chemically resistant personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up must be properly trained and wear the appropriate chemically protective equipment. Refer to Section 8 for additional information on acceptable personal protective equipment.
Environmental precautions	:	Do not allow product to enter waterways. Do not allow material to contaminate ground water system.
Spill response / clean-up	:	Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal. (See Section 13.) Residual material can be cleaned up with warm, soapy water. Notify the appropriate authorities as required.
Prohibited materials	:	Avoid strong oxidizing agents and isocyanates. Do not allow spilled material to mix with epoxy resins. Chemical reaction with epoxy resins causes polymerization and release of heat energy.
Special spill response procedures	:	This product does not contain any chemicals that must be reported to the EPA in the event of a spill or release. For advice on chemical spills with this product, call the emergency number listed in Section 1. US CERCLA Reportable quantity (RQ): None Reported.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures	: Corrosive! Do NOT get into eyes, on skin or on clothing. Do NOT breathe vapor. Observe good hygiene standards. Wash thoroughly after handling. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing installations (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse.
Storage requirements	: Store locked up. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.
Incompatible materials	: See Section 10.
Special packaging materials	: Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible e	xposure levels
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: No exposure limit has been established for the product itself. The following are the exposure limits for the product components.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TLV	STEL	PEL	STEL
		0.025 mg/m ³ (respirable		0.05 mg/m ³ (respirable) (final rule	
Crystalline silica, quartz	14808-60-7	fraction)	N/Av	limit)	N/Av

		1 ppm			
Triethylenetetramine	112-24-3	(skin)	N/Av	N/Av	N/Av
Polyamide resin	68410-23-1	N/Av	N/Av	N/Av	N/Av
		10 mg/m ³ (total dust);			
		3 mg/m ³		6 mg/m³	
Hydrophobic silica	67762-90-7	(respirable)	N/Av	NIOSH	N/Av
Aminoalkoxysilane	1760-24-3	N/Av	N/Av	N/Av	N/Av
Isophoronediamine	2855-13-2	N/Av	N/Av	N/Av	N/Av
Titanium dioxide, TiO ₂	13463-67-7	10 mg/m ³	N/Av	15 mg/m ³	N/Av

Ventilation and engineering measures:	Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.	
Personal Protection Equipment		
Eye / face protection	Safety glasses must be worn when using this product.	
Hand protection :	Wear impervious gloves. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended. Refer to glove manufacturer for breakthrough time for the chemicals in this product. (See Section 3.)	
Body protection :	Wear chemical resistant protective clothing. Where extensive exposure to product is possible, use resistant coveralls, apron, and boots to prevent contact.	
Respiratory protection :	If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.	
Other protective equipment	An eyewash station and safety shower should be made available in the immediate working area.	
General hygiene considerations	Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.	

Physical state	:	Liquid	Appear	ance	:	White	ра	aste
Odor	:	Amine Odor threshold :		:	N/Av			
рН	:	11 - 13	Specifi	c gravity	:	2.1		
Boiling point	:	N/Av	Coeffic	ent of water/oil distribution	:	: N/Av		
Melting/Freezing point	:	N/Av	Solubil	ty in water	:	: Not soluble		ble
Vapor pressure (mm Hg @ 20°C / 68°F)	:	N/Av						
Evaporation rate (n-Butyl acetate = 1)	:	N/Av		Viscosity			:	N/Av
Vapor density (Air = 1)	:	N/Av Volatiles (% by weight)					:	N/Av
Volatile organic compounds (VOCs)	:	2.67 g/L A+B, ASTM D2369						
Flammability classification (OSHA	29	CFR 1910.1200)						
	:	Non-flammable						
Flash point	:	>100°C (>212°F)	Lower flammable limit (% b	by	vol)	:	N/Av
Flash point method	:	Setaflash closed cup Upper flammable limit (% b		эy	vol)	:	N/Av	
Auto-ignition temperature	:	N/Av Oxidizing properties				:	None	
Flame projection length	:	Not available		Flashback observed			:	Not available
Explosion data: Sensitivity to med	ha	anical impact / sta	atic disc	harge				

: Not expected to be sensitive to mechanical impact or static.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity	:	Product is formulated to react with epoxides, forming a polymer. This reaction evolves heat.
Stability	:	Stable under the recommended storage and handling conditions prescribed.
Hazardous polymerization	:	Hazardous auto-polymerization does not occur.
Conditions to avoid	:	High temperatures.
Materials to avoid and incompatibi	lity	

: Oxidizing agents, isocyanates.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

	SECTION	N 11 – TOXI		NFORMATIO	N		
Routes of Exposure Symptoms of exposure		nhalation: YES see Section 4.	Skin Absorption:	NO Skin and Eye	es: YES Ingestion: YES		
Calculated Acute Toxicity Es	timates for th	ne Product					
Inhalation	: > 40 mg/L						
Oral	: >	: > 6,000 mg/kg					
Dermal	: >	4,000 mg/kg					
Toxicological data	: S	see below for indi	vidual ingredient acu	ute toxicity data.			
			LC50 (4 hr)	LD50			
Ingredients		CAS No.	Inhalation, rat,	Oral, rat	Dermal, rabbit		
5			mg/L	mg/kg	mg/kg		
Crystalline silica, quartz		14808-60-7	N/Av	N/Av	N/Av		
Triethylenetetramine		112-24-3	N/Av	2500	805		
Polyamide resin		68410-23-1	N/Av	> 2000	> 2000		
Hydrophobic silica		67762-90-7 1760-24-3	N/Av	> 1000 (Max dose in study)	> 2000		
,	Aminoalkoxysilane		1.49 - 2.44 (1 hr)	2413	>2009 (rat)		
Isophoronediamine		2855-13-2	> 5.01	1030	> 2000		
Titanium dioxide, TiO ₂		13463-67-7	> 6.82	> 24,000	> 10,000		
Repeated Dose Effects	: N	lone known.					
Carcinogenic status	C S U S	: This product contains Crystalline silica (quartz), which is listed as a known human carcinogen (by inhalation) by IARC (Group 1) and NTP. Titanium dioxide is suspected to be carcinogenic by inhalation (IARC 2B). Under normal conditions of use, this product will not produce airborne dust. Avoid operations such as grinding, sanding or sawing which will produce airborne dust. See Section 7.					
Reproductive Toxicity Teratogenicity		 This product contains trace amounts of methanol (< 0.1%). None known. 					
Mutagenicity	: N	: None known.					
Epidemiology	: N	: Not available.					
Target Organ Effects	: None known.						
Sensitization to material		: Contains components which are known to cause skin sensitization reactions.					
Synergistic materials		: Not available.					
Irritancy/Corrosivity		: Corrosive to skin and eyes.					
Other important hazards	: S	see hazards listed	I in Section 2.				

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects	:	The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
Ecotoxicological	:	No data is available on the product itself.
Ecotoxicity	:	No data available.
Biodegradability	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
PBT and vPvB assessmen	t :	No data available.
Other adverse effects	:	No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal Methods of disposal : Handle waste according to recommendations in Section 7.

: Dispose in accordance with all applicable federal, state, provincial and local

regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA

: For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN 2735	Amines, liquid, corrosive, n.o.s. (Contains: Triethylenetetramine, Isophoronediamine)	8	11	CORROSIVE 8
TDG Additional Information	This product	ships as a Limited Quantity per TDGR 1.17.			
49 CFR/DOT	UN 2735	Amines, liquid, corrosive, n.o.s. (Contains: Triethylenetetramine, Isophoronediamine)	8	11	CORROSIVE 8
49 CFR/DOT Additional Information	This product	ships as a Limited Quantity per 49 CFR 173.154 (b).	·		

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Skin Corrosion/Irritation, Category 1

Eye Corrosion/Irritation, Category 1

Skin Sensitization, Category 1

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for this product is 10,000 pounds.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

Component	CAS	CA	MA	MN	NJ	NY	PA	RI
Crystalline silica, quartz	14808-60-7	No	Yes	Yes	Yes	No	Yes	Yes
Triethylenetetramine	112-24-3	No	Yes	No	Yes	No	Yes	No
Isophoronediamine	2855-13-2	No	No	Yes	Yes	No	No	No
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	No	Yes	Yes

	SECTION 16 – OTHER INFORMATION
HMIS Rating	: <u>* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe</u> Health: *2 Flammability 1 Physical Hazard 1 PPE: B Gloves, safety glasses
Legend	 ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency GHS: Globally Harmonized System HPR: Hazardous Products Regulations IARC: International Agency for Research on Cancer Inh: Inhalation N/Av: Not Available N/Ap: Not Applicable NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. ARDEX L.P. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

Prepared By: ARDEX L.P. 400 Ardex Park Drive Aliquippa, PA, U.S.A. 15001

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Revision date:

: 05-Jan-2024

End of Document