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Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 5/16/2014

	· · · · · · · · · · · · · · · · · · ·					HAZARD RATING	Health	3
SECTION	I - IDENTIF	ICATIO)N			0 = Least	Flammability	1
IDENTITY (As U				te Colorf	ast Hardener	1 = Slight 2 = Moderate	Reactivity	1
				yisocyanate Blend		3 = High 4 = Extreme	Personal Protection	G
SECTION	II - PRODU	СТ СО			CAS.#	OSHA PEL	ACGIH TLV	
Homopolymer	of HDI				28182-81-2	N.E. ¹	N.E.	
	e Diisocyanate	(HDI) ²			822-06-0	N.E.	0.005ppm	
	edicyclohexyl d		e^3		5124-30-1	0.01ppm	0.01ppm	
¹ Not Establish	ed							
² Residual mon	omer content is	s less than	0.5% based or	n resin solids a	t the time of manufactu	ire.		
³ The manufact	turer of the com	nponent st	ates that they v	vill provide ado	ditional information to	a health professional i	n the	
event of a m	edical emergen	cy.						
T. C. C. A. C.	0.77							
	is - O.K. on all			II CHEMEE	DEC 24 HOUR EMER	CENCY NUMBER	1 000 424 020	10.4
	<u>, LEAK, FIRE</u> III - PHYSI(REC 24-HOUR EMER	RGENCY NUMBER	1-800-424-930	00*
Boiling Point	III - FITT 310	SALICI	ILIVIICAL C	N/A	Specific Gravity (H2O =	1)	1.12	
Vapor Pressure	(mm Ha)			4.7 x 10 ⁻⁷	Melting Point	1)	N/A	
Vapor Density (A	• • •			>1	Evaporation rate (Butyl A	Acetate = 1)	N/A	
. ,	Compounds (VC)C)			Evaporation rate (Baty)	1001010 - 17	IV/A	
Solubility in Wat	. ,	NOT SO	IIDIE	0 g/l				
Appearance and				anid Negligibl	le-Nearly Odorless			
	IV - FIRE a	e re un, p un	J	1,				
			LOCIOITI		Flammable Limits	LEL	UEL	
Flash Point (Closed Cup Method)			460°F	N/A	222	022		
Extinguishing M	edia		Dry Chemical		sal Type Foam, Water	Fog		
Special Firefight			Dij chemicu	s, e o ₂ , e m ver	our Type Touris, Water	. 05		
Wear full prote	ective equipme	nt includi	ng self-contain	ed breathing a	pparatus. During a fire,	HDI vapors and other	irritating,	
_			_		ombustion. Closed con	_	_	
	nt or burst when	_		-			•	
	d Explosion Haza		nated Willi Wate	01 (002 010110				
None reported	for this produc	ct.						
	V - REACT		DATA					
Stability	Unstable		Conditions to Av	void				
	Stable	X	Keep containe	ers closed when	not in use.			
Incompatibility (I	Materials to Avoid				orus-containing materia	ls.		
Hazardous Deco	omposition or By	oroducts	<u> </u>		d carbon monoxide and			
Hazardous	May Occur	X	Conditions to Av					
Polymerization	Will Not Occur		Contact with me	oisture or other r	naterials which react with	isocyanates or temperate	ures above 400F.	

SECTION VI - HEALTH HAZARD DATA Route(s) of Entry: Inhalation? Skin? Ingestion? Yes YES Signs and Symptoms of Exposure Irritation and redness of skin and eyes. Breathing difficulty Health Hazards (Acute and Chronic) ACUTE - prolonged skin exposure can cause irritation, dermatitis. Inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, nausea. CHRONIC - prolonged or repeated exposure to vapors may cause lung damage as wel 1 as increased sensitivity. NTP? IARC Monographs? OSHA Regulated? Carcinogenicity: NO NO NO Medical Conditions Generally Aggravated by Exposure Asthma and other respiratory disorders(bronchitis, emphysema, hyperreactivity), skin allergies, eczema. Emergency and First Aid Procedures EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary. Skin - remove contaminate clothing. Clean affected area with mild soap and water. If irritation or redness develops, seek medical attention. INHALATION- move person away from source of exposure and into fresh air. If person is not breathing, give artificial respiration and seek medical attention immediately. If breathing difficulty develops, give oxygen and seek medical attention immediately. **NOTE** PERSONS WITH LUNG DISORDERS OR WHO ARE SENSITIZED SHOULD NOT USE THIS PRODUCT. SECTION VII - CONTROL MEASURES Respiratory Protection (Specify Type) Use NIOSH approved respirator as outlined in 30CFR11 and 29CFR 1910.134 effective for solvent and diisocyanate vapors. Use SCBA or air-supplied respirators when TLV/PEL is exceeded. Ventilation Local Exhaust Use in confined areas. Special Explosion proof fans when needed. Mechanical Must be sufficient to maintain area below established TLV/PEL Protective Gloves Eye Protection Splash proof goggles. Neoprene rubber gloves. Other Protective Clothing or Equipment Use other protective equipment such as rubber aprons and a face shield if danger of splashing is possible. Eye wash station or clear water must be readily available. ENFORCE GOOD HYGIENE PRACTICES. No smoking or open lights in work area. Exposure to liquid, vapors, mists or fumes must be minimized. Use air supplied respirators in enclosed areas and when PEL/TLV is higher than established level. Work/Hygienic Practices Launder contaminated clothing before use. Dispose contaminated leather shoes SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE Steps to be Taken in Case Material is Released or Spilled Shut off and eliminate all ignition sources. Keep people away. Add sand, earth or other absorbent to spill area. Ventilate confined spaces. Open windows and doors, minimize breathing vapors and skin contact. Keep spill out of sewers by diking. Observe precautions for volatile, flammable vapors from absorbed material. Waste Disposal Method Incineration in accordance with local, state, and federal regulations. Precautions to be Taken in Handling and Storing Keep containers tightly closed when not in use and away from excessive heat and flame. DO NOT pressurize, cut, weld, solder, drill or grind the containers. Other Precautions Store in an OSHA approved area for flammable materials. Prepared by Murty Bhamidipati "The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and PLEASE

NOTE

"The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use."



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Date Prepared 08/11/2014

Poly-Crete Colorfast Resin: all colors POLYOL-PIGMENT BLEND SECTION II - PRODUCT COMPONENTS Water Polyester-ether polyol blend Proprietary ² Pigment Fillers Polyester-ethery Proprietary		Reactivity Personal Protection ACGIH TLV N.E. N.E. N.E. 10mg/m³ 10mg/m³ .5mg/m³(dust)	1 1 0 B
SECTION II - PRODUCT COMPONENTS Water Polyester-ether polyol blend Proprietary Pigment Fillers Polyester-ether Proprietary	2 = Moderate 3 = High 4 = Extreme OSHA PEL NE N.E. N.E. 10mg/m³ 10mg/m³ 5mg/m³(dust)	Personal Protection ACGIH TLV N.E. N.E. N.E. 10mg/m³ 10mg/m³	
POLYOL-PIGMENT BLEND SECTION II - PRODUCT COMPONENTS Water 7732-18-5 Polyester-ether polyol blend Proprietary Pigment Fillers Proprietary	OSHA PEL NE N.E. N.E. 10mg/m³ 10mg/m³ 5.mg/m³(dust)	N.E. N.E. N.E. 10mg/m³ 10mg/m³	В
Water 7732-18-5 Polyester-ether polyol blend Proprietary ² Pigment Fillers Proprietary	NE ¹ N.E. N.E. 10mg/m ³ 10mg/m ³ .5mg/m ³ (dust)	N.E. N.E. N.E. 10mg/m ³	
Polyester-ether polyol blend Proprietary ² Pigment Fillers Proprietary	N.E. N.E. 10mg/m³ 10mg/m³ 5mg/m³(dust)	N.E. N.E. 10mg/m ³ 10mg/m ³	
Pigment Fillers Proprietary	N.E. 10mg/m ³ 10mg/m ³ 5mg/m ³ (dust)	N.E. 10mg/m ³ 10mg/m ³	
Pigment Fillers Proprietary	10mg/m ³ 10mg/m ³ .5mg/m ³ (dust)	$\frac{10\text{mg/m}^3}{10\text{mg/m}^3}$	
RutileTitanium Dioxide 13463-67-7	10mg/m ³ .5mg/m ³ (dust)	10mg/m^3	
	.5mg/m ³ (dust)	10mg/m^3	
Inorganic Iron Oxides 1309-37-1		.5mg/m ³ (dust)	
Carbon Black 1333-86-4 3.	nrofessional i		
None Established.	professional i		
The manufacturer of the component states that they will provide additional information to a health		n the	
The manufacturer of the component states that they will provide additional information to a health event of a medical emergency.	i professionar i	in the	
event of a medical emergency.			
T.S.C.A. Status - O.K. on all above components.			
FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENC	Y NUMBER	1-800-424-9300)
SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS			
Boiling Point 212°F Specific Gravity (H2O = 1)		>1	
Vapor Pressure (mm Hg) N/A Melting Point		N/A	
Vapor Density (AIR = 1) >1 Evaporation rate (Butyl Acetate = 1	Evaporation rate (Butyl Acetate = 1) <1		
Volatile Organic Compounds < 5 g/L		•	
Solubility in Water Dispersable			
Appearance and Odor Viscous Liquid. Color varies upon desired shade. Faint Aromatic Od	lor.		
SECTION IV - FIRE and EXPLOSION HAZARD DATA			
T I	LEL	UEL	
	N / A	N/A	
Extinguishing Media Foam, CO ₂ , dry chemical, water spray.			
Special Firefighting Procedures			
Wear full protective equipment including self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards			
Combustion products may be toxic. Cool storage containers with water spray to prevent pressure			
build-up that may rupture the containers.			
SECTION V - REACTIVITY DATA			
Stability Unstable Conditions to Avoid			
Stable X None known			
Incompatibility (Materials to Avoid) Strong Oxidants.			
Hazardous Decomposition or Byproducts Burning will produce toxic fumes.			
Hazardous May Occur Conditions to Avoid			
Polymerization Will Not Occur X Avoid contact with strong oxidizing agent.			

SECTION VI - HEALTH HAZARD DATA Inhalation? Skin? Ingestion? Route(s) of Entry: Yes Yes No Irritation of skin.. Signs and Symptoms of Exposure Health Hazards (Acute and Chronic) ACUTE - Irritation of skin and dermatitis. CHRONIC - Repeated over-exposure may cause skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. NOTE: Persons with lung disorders or who are sensitized should not use this product. Carcinogenicity: NTP? IARC Monographs? OSHA Regulated? No No Medical Conditions Generally Aggravated by Exposure Allergy, skin disorders. **Emergency and First Aid Procedures** EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary. SKIN - Promptly wash with soap and water. Do not wash with solvents. Seek medical advice if irritation develops or persists. INHALATION - Not a likely route of entry. Although this product is not known to cause respiratory problems, if breathing is difficult rmove to fresh air and provide oxygen INGESTION - Get medical attention immediately. Never give liquids to an unconscious or convulsing person. **SECTION VII - CONTROL MEASURES** Respiratory Protection (Specify Type) Provide adequate exhaust ventilation; use a NIOSH approved respirator if PELS/TLVS are exceeded. Ventilation _ocal Exhaust If needed. Special None known. Mechanical Adequate exhaust ventilation must exhaust away from applicator. Protective Gloves Eye Protection Natural Rubber or Neoprene Splash goggles or face shield. Other Protective Clothing or Equipment Use rubber apron, face shield and appropriate, clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams may help, but gloves must still be worn. Clean-up with soap and water. An eye wash station or an adequate supply of clean water must be available at work area. Work/Hygienic Practices Enforce careful handling to prevent splashing. Wash thoroughly after use. SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE Steps to be Taken in Case Material is Released or Spilled Wear protective equipment to prevent exposure. Stop spill and dike to prevent spreading. Cover spill with absorbent materials and collect into containers. Clean contaminated area with detergent and water or a steam cleaner for best results. Waste Disposal Method: Dispose in accordance with Federal, State and Local requirements. Precautions to be Taken in Handling and Storing Keep containers tightly closed when not in use. Other Precautions None known. Murty Bhamidipati Prepared by "The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change **PLEASE** and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED. WITH NOTE RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.'



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Date Prepared 8/11/2014

						HAZAKU KATING	пеанн	3
SECTION I - IDENTIFICATION					0 = Least	Flammability	0	
IDENTITY (As Used on Label) Poly-Crete Colorfast Aggregate					1 = Slight 2 = Moderate	Reactivity	0	
COMMON NAM	IE .		Activator Pow	der		3 = High 4 = Extreme	Personal Protection	G
SECTION	II - PRODU	ICT CO	MPONENT	S	CAS.#	OSHA PEL	ACGIH TLV	
Portland Cement ¹					65997-15-1	10mg/m^3	10mg/m^3	
						Total Dust	Total Dust	
Calcium/Magnesium Hydroxide					39445-23-3	15mg/m^3	10mg/m^3	
						Total Dust	Total Dust	
¹ Due to the use	e of substances	mined fr	om the earth's	crust, trace a	nounts of naturally			
occurring, pot	entially harmfu	ıl constitu	ents may be de	tected during	chemical analysis.			
Portland ceme	ent may contain	up to 0.7	5% insoluble re	esidue. A sm	all amount of this residue			
includes free *	^t crystalline sili	ica. Wet F	Portland Cemen	t is corrosive	to skin and eyes			
*Crystalline s	silica can be a l	ung injur	y and cancer ha	zard. Do not	breathe dust. May cause of	delayed lung injury. I	ong term	
exposure can	cause silicosis,	a respirat	ory disease whi	ich can result	in a delayed, disabling, a	nd sometimes fatal lu	ing injury.	
Crystalline sili	ica inhaled from	n occupat	ional sources c	an from occu	pational sources can cause	e cancer in humans. I	Risk of	
injury is deper	ndent on the du	ration and	l level of expos	sure.				
T.S.C.A. Stat			CIDENTE CA	I I CHEM	DEC 24 HOUD EMED	CENCY NUMBER	1 000 424 020	.O.\$
			HEMICAL O		REC 24-HOUR EMER	GENCY NUMBER	1-800-424-930	ሀ*
Boiling Point		OAL/OI	ILIMIOAL	4,000°F	Specific Gravity (H2O = 1)	>1	
Vapor Pressure	(mm Ha)			N/A	Melting Point	,	3,000°F	
Vapor Density (N/A	Evaporation rate (Butyl Ad	cetate = 1)	N/A	
Volatile Organic				0 g/L		,	11/11	
Solubility in Wat	•	INSOLU	IRI E	U g/L	<u> </u>			
Appearance and			y rounded sand	Various siz	res No odor			
			PLOSION F					
	sed Cup Method				Flammable Limits	LEL	UEL	
ridorri omit (oro	oca Cap Mouloa	• •		N/A	rammable Elline	N/A	N/A	
Extinguishing M	ledia		N/A	1. 47.				
Special Firefight	ting Procedures		17/11					
N/A								
Unusual Fire an	d Explosion Haz	ards						
N/A								
- 1/1-1								
SECTION	V - REACT	IVITY I	DATA					
Stability	Unstable		Conditions to Av	void				
	Stable	X	NONE KNOV	VN.				
Incompatibility (Materials to Avoi				verful oxidizing agents.			
Hazardous Dec	omposition or By	products	•	NONE KNO				
Hazardous	May Occur		Conditions to Av					
Polymerization	Will Not Occur	X	NONE KNOV	VN.				

SECTION VI - HEALTH HAZARD DATA Skin? Route(s) of Entry: Inhalation? Ingestion? NO NO Yes Shortness of breath and reduced pulmonary function. Signs and Symptoms of Exposure Health Hazards (Acute and Chronic) ACUTE - NO SYMPTOMS. CHRONIC - excessive inhalation of dust may result in respiratory disease such as silicosis, pulmonary fibrosis, etc. The IARC has evaluated in Vol.42 (monographs) that there is "sufficient evidence for the Carcinogenicity of crystalline silica dust to experimental animal" and "limited evidence" with respect to humans. Carcinogenicity: NTP? IARC Monographs? **OSHA Regulated?** Yes (Respirable Silica) YES*Level 2A Grouping NO Medical Conditions Generally Aggravated by Exposure Lung disorders and persons subject to eye irritation. Emergency and First Aid Procedures EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary. SKIN - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice if irritation develops or persists INHALATION - Move person to fresh area if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician. INGESTION - Expected to be slightly toxic by ingestion. If swallowed, induce vomiting immediately as directed by a physcian. Get medical attention immediately. Never give liquids to an unconscious or convulsing person. OTHER HEALTH EFFECTS - Medical conditions which may be aggravated by exposure to this product include, conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases. Sensitization may occur by skin contact. **NOTE** persons with lung disorders or who are sensitized should not use this product SECTION VII - CONTROL MEASURES Respiratory Protection (Specify Type): Atmospheric levels should be maintained below the exposure limits listed in section II by using engineering controls. Provide adequate exhaust ventilation and/or NIOSH approved cartridge respirator. Ventilation Local Exhaust To meet PEL requirements. Special None Known. Mechanical Adequate to meet PEL requirements. Eye Protection Protective Gloves Recommended. Recommended Other Protective Clothing or Equipment Use adequate ventilation and dust collection. To minimize exposure, wear a respirator approved for silica dust when using, handling, storing or disposing of this product. Refer to the most recent standards of ANSI (Z88.2), OSHA (29 CFR 1910.134), MHSA (30 CFR Parts 56 and 57), and NIOSH Respirator Decision Logic. Maintain, clean and fit test respirators in accordance with OSHA regulations. Work/Hygienic Practices Avoid creating and breathing dust. SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE Steps to be Taken in Case Material is Released or Spilled Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Silica may be in the air without a visible dust cloud. Avoid creation of respirable dust Waste Disposal Method Dispose waste material in a sanitary land fill or as regulated by local, state and federal regulations.

Precautions to be Taken in Handling and Storing

Avoid creation of respirable dust. Take precaution against bag breakage.

Other Precautions None Known.

Prepared by Murty Bhamidipati

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