				7	500 Part A
		AFETY DATA S			
NFPA RATING: Health = 1 Flammab		Reactivity = $($			
HMIS RATING: Health = 1 Flammab	oility = 0	Reactivity = 0)		
			/·		
SECTION I IDENTITY AND MANUFAC			(568-177A)		
Manufacturer's Name: HILLYARD INDU			ne: HTG Concre	. ,	
Address:302 North Fourth S		-	ed: September 17,		
St. Joseph, MO 645		Prepared by:		ffairs Department	
Emergency Telephone No.: (800) 424-9300 (Only in the ever				
accident involving chemicals.)		Other inform	,	5) 233-1321 (Ext. 8285)	
			<u>http</u>	://www.hillyard.com	
SECTION II INGREDIENTS/IDENTITY	INFORMATI	ON			
Components					
(Specific Chemical Identity:				OTHER LIMITS	
Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%
Water	7732-18-5	none	none	N/A	
Bisphenol A diglycidyl ether resin	25085-99-8	N/E	N/E	N/A	35-40
Titanium dioxide	13463-67-7	N/E	N/E	N/A	23-25
Dipropylene glycol n-propyl ether	29911-27-1	N/E	N/E	N/A	5-7
VOC < 160 g/l					
N/A = Not Applicable $N/E = Not Established$					
SECTION III PHYSICAL / CHEMICAL	CHARACTEF	RISTICS			
Boiling Point: corr. 212°F	Spec	ific Gravity (H ₂	O = 1): 25°C =	1.367 Density =	11.39 lbs/gl.
Vapor Pressure (mm Hg.): 2.3	Perc	ent Volatile by V	Weight (%):	43 - 45%	-
Vapor Density (AIR = 1): 0.62			thyl ether = 1):	slower than 1	
Solubility in Water: Complete		earance and Od		quid with mild odor	
pH (concentrate)= 6 - 8				1	
SECTION IV FIRE AND EXPLOSION H	AZARD DAT	Α			
Flash point: >212°F		e Limits: LEL :	= not detern	mined UEL =	N/A
Extinguishing Media: Carbon dioxid	e, dry chemical	, fog or water spi	rav		
Special Fire Fighting Procedures: S				ece operated in pressure	e demand or
other pressure mode.		8 11	I	I I I I I I I I I I I I I I I I I I I	
Unusual Fire and Explosion Hazard	Is: May form c	arbon dioxide an	d carbon monoxid	le.	
	st may form of	aroon aroniae an			
SECTION V PHYSICAL HAZARDS					
Stability: Stable	Conditions to	Avoid	N/A		
Incompatibility (Materials to Avoid				strong bases	
Hazardous Decomposition Products					hustion of
organic material. Reaction with perox	• •			de una products of com	oustion of
Hazardous Polymerization:	Will not occu		ns to Avoid:	N/A	
mazaruous r orymerization.	win not occu	Conunto	ins to Avoid.	11/11	
SECTION VI HEALTH HAZARD DATA					
Routes of entry: Inhalation?	Yes Skin		gestion? Yes		
HEALTH HAZARDS (1. Acute and 2. Chro		Yes Ir	ngestion? Yes		
1. Prolonged skin exposure may cause			varias from norse	on to porson	
2. Epoxy resins are capable of causing			varies from perso	on to person.	
Chemical listed as Carcinogen or Po		•	monha No	OSUA – Ma	
National Toxicology Program =		I.A.R.C. Monog			
This product has no carcinogens listed	I UY IAKC, NTE	, MOSH, OF AC	oin as of this dat	le, greater than or equal	10 0.1%.

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged exposure may cause skin irritation.

Medical Conditions Generally Aggravated by Exposure: Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.

Emergency and First Aid Procedures: In case of contact immediately wash skin with soap and water. Remove contaminated clothing and wash clothing before reuse; if symptoms occur call a physician.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area and add absorbent earth, sand or sawdust to spilled liquid. Keep out of sewers.

Waste Disposal Method: Collect absorbent/spilled mixture into metal containers. Dispose of in accordance with local, state and federal regulations. Incinerate in approved facility.

Precautions To Be Taken In Handling And Storing: Keep containers closed tightly when not in use. Store in cool, well ventilated areas away from heat and out of direct sunlight. Protect from freezing. **Notice:** Saw dust from freshly sanded floors or dust from wood floors that have been abraded between coats will spontaneously catch fire if improperly discarded. Immediately after abrading or sanding wood floors, place dust waste in a sealed, water-filled metal container and immediately remove from building. **Notice:** Rags or applicators soaked in a combustible liquid will spontaneously catch fire if improperly discarded. Immediately after using rags or applicators soaked in a combustible liquid, place waste in a sealed, water-filled metal container and immediately remove from building.

Other Precautions: Avoid prolonged breathing of vapor or spray mist. Avoid prolonged or repeated contact with skin. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): If sprayed, use respiratory MESA/NIOSH approved for mist and organic vapor. None normally needed.

Ventilation:

Local Exhaust =N/AMechanical (General) =Adequate ventilation requiredSpecial =N/AOther =N/AProtective Gloves:Rubber gloves suggestedEye Protection:Wear eye/face protectionOther Protective Clothing or Equipment:To prevent repeated or prolonged contact, wear impervious clothing and boots.Work / Hygienic Practices:Wash hands before eating or using washroom.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations:49 CFR = no;IMCO = no;IATA = no.Proper shipping name:Varnish.UN No.:not applicable;Limited Qty.:not applicable;Hazard Class:not applicable.Labels required:not requiredDOT Exception:not applicableEPA Hazardous waste number / code:not listedHazardous waste characteristics:Ignitability = not applicable;Corrosivity = not applicable;Reactivity = not applicable.

DISCLAIMER OF WARRANTIES

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MATERIAL SAFETY DATA SHEET						
NFPA RATING: Health =1FlammabHMIS RATING: Health =1Flammab	ility = 0 Reactivit ility = 0 Reactivit	•				
SECTION I IDENTITY AND MANUFAC Manufacturer's Name: HILLYARD INDU Address: 302 North Fourth St St. Joseph, MO 645 Emergency Telephone No.: (800) 424-9300 (d accident involving chemicals.)	STRIESProducttreetDate I01PrepaOnly in the event of cherOther	uct Name: HTG Prepared: Septe red by: Regu mical emergency	mber 17, 2013 latory Affairs I involving a spi alls: (816) 233-	(new) Department	r	
SECTION II INGREDIENTS/IDENTITY	INFORMATION					
Components (Specific Chemical Identity: Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%	
Water	7732-18-5	none	none	N/A		
Polyamine Polymer	Unknown to Hillyard	N/E	N/E	N/E	25 - 35	
O,O'-Bis(2-aminopropyl)polypropylene glycol Tetraethylenepentamine ⁽¹⁾	9046-10-0 112-57-2	N/E 5 mg/m ³	N/E N/E	N/A N/A	2 - 4 1 - 3	
$^{(1)}$ Regulated by OSHA, MA and PA VOC = 0%						
N/A = Not Applicable $N/E = Not Established$						
SECTION III PHYSICAL / CHEMICAL Boiling Point: corr. 212°F Vapor Pressure (mm Hg.): 2.3 Vapor Density (AIR = 1): 0.62 Solubility in Water: Complete pH (concentrate)= 9 - 11 SECTION IV FIRE AND EXPLOSION H Flash point: >212°F	Specific Grav Percent Vola Evaporation Appearance a	vity (H ₂ O = 1): 2 tile by Weight (⁶ Rate (ethyl ethe and Odor:	%): 57 - 5	8% c than 1	lbs/gl.	
Extinguishing Media: Carbon dioxid Special Fire Fighting Procedures: So other pressure mode. Unusual Fire and Explosion Hazard	e, dry chemical, fog or welf-contained breathing a	vater spray apparatus with ful	ll face-piece op		nd or	
SECTION V PHYSICAL HAZARDS Stability: Stable Incompatibility (Materials to Avoid Hazardous Decomposition Products organic material. Reaction with peroxi Hazardous Polymerization:	or Byproducts: Carbo des may result in violen	n monoxide, cart	oon dioxide and	products of combustion	ı of	
 SECTION VI HEALTH HAZARD DATA Routes of entry: Inhalation? HEALTH HAZARDS (1. Acute and 2. Chro 1. Prolonged skin exposure may cause 2. Epoxy resins are capable of causing Chemical listed as Carcinogen or Po National Toxicology Program = This product has no carcinogens listed 	Yes Skin? Yes nic) mild irritation. sensitization of skin; se stential Carcinogen: No I.A.R.C.	Monographs =	No	DSHA = No	<i>%</i> .	

MATERIAL SAFETY DATA SHEET

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged exposure may cause skin irritation.

Medical Conditions Generally Aggravated by Exposure: Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.

Emergency and First Aid Procedures: In case of contact immediately wash skin with soap and water. Remove contaminated clothing and wash clothing before reuse; if symptoms occur call a physician.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area and add absorbent earth, sand or sawdust to spilled liquid. Keep out of sewers.

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SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): If sprayed, use respiratory MESA/NIOSH approved for mist and organic vapor. None normally needed.

Ventilation:

Local Exhaust =N/AMechanical (General) =Adequate ventilation requiredSpecial =N/AOther =N/AProtective Gloves:Rubber gloves suggestedEye Protection:Wear eye/face protectionOther Protective Clothing or Equipment:To prevent repeated or prolonged contact, wear impervious clothing and boots.Work / Hygienic Practices:Wash hands before eating or using washroom.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations:49 CFR = no;IMCO = no;IATA = no.Proper shipping name:Varnish.UN No.:not applicable;Limited Qty.:not applicable;Hazard Class:not applicable.Labels required:not requiredDOT Exception:not applicableEPA Hazardous waste number / code:not listedHazardous waste characteristics:Ignitability = not applicable;Corrosivity = not applicable;Reactivity = not applicable.

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				#500 Part A	4&B	
	MATERIAL SAFET	Γ <mark>Υ DATA</mark> S	HEET			
NFPA RATING: Health = 1 Flamm	ability = 0 Reac	tivity = 0				
		tivity = 0				
	aonity o neue	civity o				
SECTION I IDENTITY AND MANUFA	CTUDED'S INFOD	MATION	(568-177)			
Manufacturer's Name: HILLYARD IND				e Seal (Part A&B)		
Address:302 North Fourth302 North Fourth		-	: September 17, 2			
St. Joseph, MO 64		pared by:		airs Department		
Emergency Telephone No.: (800) 424-9300			0.			
accident involving chemicals.)	C	Other inform		5) 233-1321 (Ext. 8285)	
			<u>http</u>	://www.hillyard.com		
SECTION II INGREDIENTS/IDENTIT	Y INFORMATION					
Components						
(Specific Chemical Identity:				OTHER LIMITS		
Common Name(s)	CAS#	OSHA	ACGIH TLV	RECOMMENDED	%	
		PEL				
Bisphenol A diglycidyl ether resin	25085-99-8	N/E	N/E	N/A	19-21	
Titanium dioxide	13463-67-7	N/E	N/E	N/A	10-12	
	nknown to Hillyard	N/E	N/E	N/A	16-18	
O,O'-Bis(2-aminopropyl)polypropylene	9046-10-0	N/E	N/E	N/A	1-2	
glycol	9010100	102	102	1.011	1 2	
Dipropylene glycol n-propyl ether	29911-27-1	N/E	N/E	N/A	2-4	
VOC < 130 g/l	27711 27 1	102	1012	1 1/2 1	2 1	
N/A = Not Applicable N/E = Not Establishe	h					
N/A= Not Applicable - N/L= Not Establish	u .					
SECTION III PHYSICAL / CHEMICA	I CUADACTEDIST	ICS				
			(1) - 1, 25% (2)	1.304 Density =	10.87 lbs/gl.	
Boiling Point: corr. 212°F	-	•	,	v	10.07 108/gl.	
Vapor Pressure (mm Hg.): 2.3			Veight (%):	45 - 47%		
Vapor Density (AIR = 1): 0.62			hyl ether = 1):			
Solubility in Water: Complete	Appearar	nce and Odo	or: Gray liq	uid, mild odor		
pH (concentrate) = 7 - 9						
SECTION IV FIRE AND EXPLOSION						
Flash point: >212°F	Flammable Lir			mined UEL =	N/A	
Extinguishing Media: Carbon diox	ide, dry chemical, fog	or water spr	ay			
Special Fire Fighting Procedures:	Self-contained breathi	ng apparatus	s with full face-pi	ece operated in pressur	e demand or	
other pressure mode.						
Unusual Fire and Explosion Haza	rds: May form carbon	dioxide and	d carbon monoxid	le.		
-	·					
SECTION V PHYSICAL HAZARDS						
Stability: Stable	Conditions to Avo	oid:	N/A			
Incompatibility (Materials to Avo				strong bases		
Hazardous Decomposition Produc					nbustion of	
organic material. Reaction with perce	• 1			de una producto or con		
Hazardous Polymerization:	Will not occur	-	ns to Avoid:	N/A		
mazaruous r orymerization.	will not occur	Condition		14/21		
SECTION VI HEALTH HAZARD DAT	٦					
Routes of entry: Inhalation?		'es In	gestion? Yes			
HEALTH HAZARDS (1. Acute and 2. Ch			gestion? Tes			
1. Prolonged skin exposure may cause mild irritation.						
2. Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.						
Chemical listed as Carcinogen or Potential Carcinogen: National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No						
National Toxicology Program =				0.0		
This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.						

#500 Part A&B

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged exposure may cause skin irritation.

Medical Conditions Generally Aggravated by Exposure: Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.

Emergency and First Aid Procedures: In case of contact immediately wash skin with soap and water. Remove contaminated clothing and wash clothing before reuse; if symptoms occur call a physician.

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SECTION IX - TRANSPORTATION INFORMATION

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