467HS High Solids Urethane Topcoat Hardener

Part B

1. Product and Company Identification Product Code: 467HS-RCB Product Name: 467HS High Solids Urethane Topcoat Hardener Part B Key Resin / Flowcrete **Company Name: Phone Number:** 4050 Clough Woods Dr. +1 (513)943-4225 Batavia, OH 45103 Chemtrec (USA) **Emergency Contact:** (800)424-9300 Chemtrec (International) +1 (703)527-3887 Intended Use: Industrial Maintenance Coatings 2. Hazards Identification Flammable Liquids, Category 4 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 2 Specific Target Organ Toxicity (repeated exposure), Category 2 **Toxic To Reproduction, Category 1B** Warning Danger H227 - Combustible liquid. **GHS Hazard Phrases:** H315 - Causes skin irritation. H319 - Causes serious eye irritation. H360 - May damage fertility or the unborn child . H371 - May cause damage to organs Central Nervous System. H373 - May cause damage to Central Nervous System through prolonged or repeated exposure. GHS Precaution Phrases: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P281 - Use personal protective equipment as required. P302+352 - IF ON SKIN: Wash with plenty of soap and water. GHS Response Phrases: P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+313 - IF exposed or concerned: Get medical attention/advice. P309+311 - Call a POISON CENTER or doctor/physician if exposed or you feel unwell. P314 - Get medical attention/advice if you feel unwell. P321 - Specific treatment see ... on this label. P332+313 - If skin irritation occurs, get medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P362 - Take off contaminated clothing and wash before re-use. P403+235 - Store in cool/well-ventilated place. GHS Storage and Disposal Phrases: P405 - Store locked up. P501 - Dispose of contents/container to local, state, and federal authority requirements.

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OSHA Regulatory Status:	This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):	Causes eye irritation. May cause skin irritation. May cause respiratory tract irritation.
Inhalation:	May cause respiratory irritation.
Skin Contact:	May cause skin irritation.
Eye Contact:	Causes eye irritation.
Ingestion:	May be harmful if swallowed.

Medical Conditions Generally Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies. Aggravated By Exposure:

	3	. Composition/Info	rmation on I	ingredients		
CAS #	Hazardous Com	ponents (Chemical Name)	Concentration			
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate		85 - 95 %			
1330-20-7	Xylene		<4.0 %			
123-86-4	Butyl acetate		<3.0 %			
100-41-4	Ethyl Benzene		<2.0 %			
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy		<1.0 %			
		4. First A	id Measures	;		
	and First Aid	Use first aid treatment acco	ording to the natur	e of the injury.		
diffic			If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.			
n Case of SI	kin Contact:	In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops persists.				
n Case of Ey	e Contact:	In case of contact with eyes, flush with copious amounts of water for at least 15 minu Assure adequate flushing by separating the eyelids with fingers. Call a physician.				
n Case of In	gestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physic immediately. For further assistance, contact your local Poison Control Center.				
Signs and Sy Exposure:	mptoms Of	May cause rash on skin, ar mist or spray.	nd redness in eyes	s. May cause coughing by inhalation of a		
		5. Fire Figh	ting Measur	es		
Flash Pt:		> 150.00 F (65.6 C) Meth	nod Used: Pensk	y-Marten Closed Cup		
Explosive Li	mits:	LEL: NE UEI	.: NE			
Autoignition	Pt:	No data.				
Suitable Exti	inguishing Medi	a: Use water spray, foam, dry	v chemical, or carb	oon dioxide.		
Unsuitable E Media:	Extinguishing	Do not use a direct water s	use a direct water stream, which may spread fire.			
Fire Fighting	Instructions:			preathing apparatus and protective clothing ater spray to cool unopened containers.		
Flammable F Hazards:	Properties and	Combustible material: may	burn but does no	t ignite readily.		

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

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6. Accidental Release Measures

Protective Precautions,

Protective Ec Emergency F	quipment and Procedures:					
	al Precautions:	Prevent entry into	waterways, sewers, base	ements or confined areas	S	
Steps To Be Material Is Re Spilled:	Taken In Case eleased Or	PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Use personal protective equipment. Evacuate area. Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.				
		7. Ha	ndling and Stora	ge		
Precautions Handling:	clothing.		ventilation. Do not breathe vapor. Do not get in eyes, on skin or on			
Storing:	To Be Taken in	place. Keep away from sources of ignition - No smoking.			and well-ventilated	
Other Precau		Wash thoroughly after handling.				
	8	. Exposure Co	ontrols/Personal	Protection		
CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
88917-22-0	Propanol, 1(or 2)-(2-methoxymet	hylethoxy)-, acetate	No data.	No data.	No data.	
1330-20-7	Xylene		PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.	
123-86-4	Butyl acetate		PEL: 150 ppm	TLV: 150 ppm STEL: 200 ppm	No data.	
100-41-4	Ethyl Benzene		PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.	
64742-82-1	Naphtha (petroleu heavy	ım), hydrodesulfurized	No data.	No data.	No data.	
Respiratory I (Specify Type Eye Protection Protective GI	e):	However, if cured p air-purifying respira appropriate use a d NIOSH/MSHA appr canister may be pe are expected to exc is limited. Use a po uncontrolled releas air purifying respira Safety glasses, or g		nding or grinding use a N ent shows air-purifying re- or type P1 (EN 143) res ator with an organic vapo ircumstances where airb otection provided by air p ied respirator if there is a ot known, or any other ci equate protection.	IIOSH approved espirators are pirator. A or cartridge or oorne concentrations ourifying respirators any potential for an	
Other Protec	tive Clothing:	Nitrile rubber and Neoprene are recommended. Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.				
Engineering (Ventilation e		Good general venti and eye bath.	lation should be sufficien	t to control airborne leve	els. Safety shower	
Work/Hygien Practices:	ic/Maintenance	Wash contaminated thoroughly after has	d clothing before reuse. [ndling.	Discard contaminated sh	oes. Wash	
Environment Controls:	ronmental Exposure Avoid release to the environment. Avoid runoff into storm sewers and ditches which le			d ditches which lead		
Licensed to Key I	Resin Company: MIF	RS MSDS, (c) A V System	is, Inc.		GHS format	

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	9. Physical and Chemical Properties
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Clear to light yellow. sweetish odor.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	> 150.00 F (65.6 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: NE UEL: NE
Specific Gravity (Water = 1):	.9597
Density:	7.9 - 8.08
Vapor Pressure (vs. Air or	NE
mm Hg):	
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NE
Solubility in Water:	NE
Saturated Vapor	NE
Concentration:	
Percent Volatile:	∼ 10 % by weight.
	10. Stability and Reactivity
Reactivity:	Stable under normal conditions.
Stability:	Unstable [] Stable [X]
Conditions To Avoid -	Avoid: Heat, flames and sparks.
Instability:	
Incompatibility - Materials To Avoid:	Avoid strong acids, bases, and oxidizing agents.
Hazardous Decomposition O Byproducts:	r Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.
Possibility of Hazardous Polymerization:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	None known.

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	11. Toxicological Information
	CAS# 1330-20-7: Acute toxicity, LD50, Oral, Rat, 4300. MG/KG. Results: Liver: Other changes. Kidney, Ureter, Bladder:Other changes. ; AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956 Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H. Results: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Ataxia. Lungs, Thorax, or Respiration:Dyspnea. ; Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,123, 1974
Irritation or Corrosion:	May cause skin irritation. May be moderately irritating to eyes.
Symptoms related to Toxicological Characteristics:	Prolonged or repeated contact may cause skin irritation with local redness.
	No data available.
	12. Ecological Information
	Avoid release to the environment. May be hazardous to the environment if released in large quantities.
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	Not determined for mixture.
Bioaccumulative Potential:	not reported, unknown.
Mobility in Soil:	not reported, unknown.
	13. Disposal Considerations
-	Dispose of this product, product solutions and its container according to federal, state and local authority requirements. Avoid release to the environment.
	14. Transport Information
LAND TRANSPORT (US DOT)	
	ne: (Non-Bulk) Not Regulated.
	Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.
DOT Hazard Class: UN/NA Number: Precautionary Label:	May cause skin, eye, and respiratory irritation.
	Always read Safety Material Data Sheet before use.
	-
IMDG/IMO Shipping Name	e: (Non-Bulk) Not Regulated.
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AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: (Non-Bulk) Not Regulated.

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CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
88917-22-0	Propanol, 1(or 2)- acetate	(2-methoxymethylethoxy)-,	No	No	No
1330-20-7	Xylene		No	Yes 100 LB	Yes
123-86-4	Butyl acetate		No	Yes 5000 LB	No
100-41-4	Ethyl Benzene		No	Yes 1000 LB	Yes
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy		No	No	No
Regulatory li	nformation:	CALIFORNIA PROPOSITI	ON 65		
		WARNING: This product contains chemicals known to the State of California to cancer and birth defects or other reproductive harm.			
		16. Other	Information		
Revision Dat	e:	16. Other	Information		
Revision Dat Additional In This Product Company Po Disclaimer:	formation About		ILABLE NE=NOT R=PROPRIETARY in this MSDS is tak	TS=TRADE SEC	RET ?=UNKNOWN. elieved to be accurate a