

## 467HS High Solids Urethane Topcoat - Satin

Printed: 12/07/2018

Revision: 12/06/2018

## Part B

Supersedes Revision: 06/29/2016

## 1. Product and Company Identification

**Product Code:** 467HS-SATIN-RCB  
**Product Name:** 467HS High Solids Urethane Topcoat - Satin Part B  
**Company Name:** Key Resin Company **Phone Number:**  
 4050 Clough Woods Dr. +1 (513)943-4225  
 Batavia, OH 45103  
**Emergency Contact:** Chemtrec (USA) (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 3



Warning

**GHS Hazard Phrases:** H227 - Combustible liquid.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 H335 - May cause respiratory irritation.  
 H303 - May be harmful if swallowed.

**GHS Precaution Phrases:** P281 - Use personal protective equipment as required.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P264 - Wash hands thoroughly after handling.  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P362+364 - Take off contaminated clothing and wash it before reuse.  
 P271 - Use only outdoors or in a well-ventilated area.

**GHS Response Phrases:** P370+378 - In case of fire, use CO2, Dry Chemical, Water Spray, Foam to extinguish.  
 P302+352 - IF ON SKIN: Wash with plenty of soap and water. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P362 - Take off contaminated clothing.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P314 - Get medical attention/advice if you feel unwell.  
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.

**GHS Storage and Disposal Phrases:** P403+235 - Store in cool/well-ventilated place.  
 P501 - Dispose of contents/container to local, state, and federal authority requirements.  
 P405 - Store locked up.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

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<b>Potential Health Effects (Acute and Chronic):</b>	Causes eye irritation. May cause skin irritation. May cause respiratory tract irritation.
<b>Inhalation:</b>	May cause respiratory irritation.
<b>Skin Contact:</b>	May cause skin irritation.
<b>Eye Contact:</b>	Causes eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Medical Conditions Generally Aggravated By Exposure:</b>	Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	75 - 95 %	
1330-20-7	Xylene	<4.0 %	
123-86-4	Butyl acetate	<2.5 %	
77-58-7	Dibutyltin dilaurate	1.0 - 2.0 %	
NA	Zinc Compounds	<1.5 %	
100-41-4	Ethyl Benzene	<1.5 %	

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Use first aid treatment according to the nature of the injury.
<b>In Case of Inhalation:</b>	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.
<b>In Case of Skin Contact:</b>	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 or persists.
<b>In Case of Eye Contact:</b>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
<b>In Case of Ingestion:</b>	If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. For further assistance, contact your local Poison Control Center.
<b>Signs and Symptoms Of Exposure:</b>	May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

### 5. Fire Fighting Measures

<b>Flash Pt:</b>	> 160.00 F (71.1 C) Method Used: Closed Cup
<b>Explosive Limits:</b>	LEL: NE UEL: NE
<b>Autoignition Pt:</b>	> 500.00 F (260.0 C)
<b>Suitable Extinguishing Media:</b>	Use water spray, foam, dry chemical, or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Do not use a direct water stream, which may spread fire.
<b>Fire Fighting Instructions:</b>	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.
<b>Flammable Properties and Hazards:</b>	Combustible material: may burn but does not ignite readily.

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
<b>Environmental Precautions:</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	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. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>Other Precautions:</b>	Wash thoroughly after handling. Keep away from sources of ignition.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, 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.
77-58-7	Dibutyltin dilaurate	No data.	No data.	No data.
NA	Zinc Compounds	No data.	No data.	No data.
100-41-4	Ethyl Benzene	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.

<b>Respiratory Equipment (Specify Type):</b>	Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
<b>Eye Protection:</b>	Safety glasses, or goggles.
<b>Protective Gloves:</b>	Nitrile rubber and Neoprene are recommended.
<b>Other Protective Clothing:</b>	Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.
<b>Engineering Controls (Ventilation etc.):</b>	Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.
<b>Work/Hygienic/Maintenance Practices:</b>	Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.
<b>Environmental Exposure Controls:</b>	Avoid release to the environment. Avoid runoff into storm sewers and ditches which lead to waterways.

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## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Clear to light yellow. sweetish odor.	
<b>Melting Point:</b>	No data.	
<b>Boiling Point:</b>	~ 400.00 F (204.4 C)	
<b>Autoignition Pt:</b>	> 500.00 F (260.0 C)	
<b>Flash Pt:</b>	> 160.00 F (71.1 C)	Method Used: Closed Cup
<b>Explosive Limits:</b>	LEL: NE	UEL: NE
<b>Specific Gravity (Water = 1):</b>	~ .971 - .995	
<b>Density:</b>	~ 8.1 - 8.3	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NE	
<b>Vapor Density (vs. Air = 1):</b>	NE	
<b>Evaporation Rate:</b>	NE	
<b>Solubility in Water:</b>	NE	
<b>Saturated Vapor Concentration:</b>	NE	
<b>Percent Volatile:</b>	~ 96 % by volume.	

## 10. Stability and Reactivity

<b>Reactivity:</b>	Stable under normal conditions.	
<b>Stability:</b>	Unstable [ ] Stable [ X ]	
<b>Conditions To Avoid - Instability:</b>	Avoid: Heat, flames and sparks.	
<b>Incompatibility - Materials To Avoid:</b>	Avoid strong acids, bases, and oxidizing agents.	
<b>Hazardous Decomposition Or Byproducts:</b>	Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.	
<b>Possibility of Hazardous Polymerization:</b>	Will occur [ ]	Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	None known.	

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## 11. Toxicological Information

<b>Toxicological Information:</b>	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
<b>Irritation or Corrosion:</b>	May cause skin irritation. May be moderately irritating to eyes.
<b>Symptoms related to Toxicological Characteristics:</b>	Prolonged or repeated contact may cause skin irritation with local redness.
<b>Chronic Toxicological Effects:</b>	No data available.

## 12. Ecological Information

<b>General Ecological Information:</b>	Avoid release to the environment. May be hazardous to the environment if released in large quantities.
<b>Results of PBT and vPvB assessment:</b>	No data available.
<b>Persistence and Degradability:</b>	Not determined for mixture.
<b>Bioaccumulative Potential:</b>	not reported, unknown.
<b>Mobility in Soil:</b>	not reported, unknown.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Dispose of this product, product solutions and its container according to federal, state and local authority requirements. Avoid release to the environment.
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## 14. Transport Information

## LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** (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.

## MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** (Non-Bulk) Not Regulated.

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## AIR TRANSPORT (ICAO/IATA):

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

## 15. Regulatory Information

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	No	No	No
1330-20-7	Xylene	No	Yes 100 LB	Yes
123-86-4	Butyl acetate	No	Yes 5000 LB	No
77-58-7	Dibutyltin dilaurate	No	No	No
NA	Zinc Compounds	No	Yes 1 LB	Yes
100-41-4	Ethyl Benzene	No	Yes 1000 LB	Yes

**This material meets the EPA**  Yes  No Acute (immediate) Health Hazard  
**'Hazard Categories' defined**  Yes  No Chronic (delayed) Health Hazard  
**for SARA Title III Sections**  Yes  No Fire Hazard  
**311/312 as indicated:**  Yes  No Sudden Release of Pressure Hazard  
 Yes  No Reactive Hazard

**Regulatory Information:** SARA Section 311/312: Acute Health Hazard. Fire Hazard.

SARA 313 Toxic Chemicals: Ethylbenzene CAS# 100-41-4 <1.5%, Xylene CAS# 1330-20-7 <4%

Zinc Compound (CAS# Trade Secret)

## CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Ethylbenzene CAS#100-41-4

**16. Other Information**

**Revision Date:** 12/06/2018

**Additional Information About This Product:** CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

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