

**SAFETY DATA SHEET**  
**470 Polyaspartic Coating - Part A**  
**(Clear/Clear OP)**

**1. Product and Company Identification**

<b>Product Code:</b>	470-CLEAR&OP	
<b>Product Name:</b>	470 Polyaspartic Coating - Part A	(Clear/Clear OP)
<b>Trade Name:</b>	470 Polyaspartic Coating - Part A	(Clear/Clear OP)
<b>Company Name:</b>	Key Resin Company 4050 Clough Woods Dr. Batavia, OH 45103	<b>Phone Number:</b> +1 (513)943-4225
<b>Emergency Contact:</b>	Chemtrec (USA) Chemtrec (International)	(800)424-9300 +1 (703)527-3887
<b>Intended Use:</b>	Industrial floor coatings.	

**2. Hazards Identification**

**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Skin Sensitization, Category 1B**



**Warning**

**GHS Hazard Phrases:** H315 - Causes skin irritation. H320 - Causes eye irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

**GHS Precaution Phrases:** P281 - Use personal protective equipment as required.  
P262 - Do not get in eyes, on skin, or on clothing.  
P280 - Wear protective gloves/protective clothing/eye protection.  
P261 - Avoid breathing mist/vapors.  
P273 - Avoid release to the environment.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing. P332+313 - If skin irritation occurs, get medical advice/attention. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P337+313 - If eye irritation persists, get medical advice/attention.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.

**GHS Storage and Disposal Phrases:** P403+235 - Store in cool/well-ventilated place. P404 - Store in a closed container.

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

**Potential Health Effects (Acute and Chronic):** Causes skin and eye irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes eye irritation.

**Ingestion:** May be harmful if swallowed.

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

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**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration	
136210-30-5	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester	60 - 70 %	
NA	Secondary Diamines	15 - 25 %	
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	10 - 20 %	
623-91-6	Diethyl fumarate	1.0 - 5.0 %	
54914-37-3	1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine	1.0 - 5.0 %	
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	1.0 - 5.0 %	
1318-02-1	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite,	<=5.0 %	

**4. First Aid Measures**

<b>Emergency and First Aid Procedures:</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. 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>	Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
<b>Signs and Symptoms Of Exposure:</b>	Moderate irritation effect.

**5. Fire Fighting Measures**

<b>Flash Pt:</b>	> 200.00 C (392.0 F) Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: NE UEL: NE
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Dry chemical, CO2, water spray or regular foam.
<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.
<b>Flammable Properties and Hazards:</b>	Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

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**6. Accidental Release Measures**

**Protective Precautions, Protective Equipment and Emergency Procedures:** Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

**Environmental Precautions:** Prevent entry into waterways, sewers, basements or confined areas.

**Steps To Be Taken In Case Material Is Released Or Spilled:** PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.  
 Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

**7. Handling and Storage**

**Precautions To Be Taken in Handling:** Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place.

**Other Precautions:** Wash thoroughly after handling.

**8. Exposure Controls/Personal Protection**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
136210-30-5	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl) bis-, tetraethyl ester	No data.	No data.	No data.
NA	Secondary Diamines	No data.	No data.	No data.
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	No data.	No data.	No data.
623-91-6	Diethyl fumarate	No data.	No data.	No data.
54914-37-3	1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine	No data.	No data.	No data.
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No data.	No data.	No data.
1318-02-1	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite,	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** 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.

**Eye Protection:** Safety glasses, or goggles.

**Protective Gloves:** Nitrile rubber and Neoprene are recommended.

**Other Protective Clothing:** Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

**Engineering Controls (Ventilation etc.):** Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

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**Work/Hygienic/Maintenance Practices:** Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Environmental Exposure Controls:** Avoid runoff into storm sewers and ditches which lead to waterways.

**9. Physical and Chemical Properties**

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Odor: Mild.  
Appearance: Clear.

**Melting Point:** NE

**Boiling Point:** NE

**Decomposition Temperature:** NE

**Autoignition Pt:** No data.

**Flash Pt:** > 200.00 C (392.0 F) Method Used: Pensky-Marten Closed Cup

**Explosive Limits:** LEL: NE UEL: NE

**Specific Gravity (Water = 1):** ~ 1.067

**Density:** ~ 8.9 LB/GL

**Vapor Pressure (vs. Air or mm Hg):** NE

**Vapor Density (vs. Air = 1):** NE

**Evaporation Rate:** NE

**Solubility in Water:** NP

**Saturated Vapor Concentration:** NE

**Percent Volatile:** < 5.0 % by weight.

**VOC / Volume:** NE

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Extreme temperatures.

**Incompatibility - Materials To Avoid:** Oxidizing agents, Acids, Isocyanates.

**Hazardous Decomposition Or Byproducts:** In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, and Amines.

**Possibility of Hazardous Polymerization:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** Will not undergo hazardous polymerization in normal storage conditions.

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**11. Toxicological Information**

**Toxicological Information:** No data available.  
**Irritation or Corrosion:** Skin Irritation. Irritating to eyes.  
**Chronic Toxicological Effects:** No data available.

**12. Ecological Information**

**General Ecological Information:** Avoid release to the environment.  
**Results of PBT and vPvB assessment:** No data available.  
**Persistence and Degradability:** No data available.  
**Bioaccumulative Potential:** No data available.  
**Mobility in Soil:** not reported, unknown.

**13. Disposal Considerations**

**Waste Disposal Method:** Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

**14. Transport Information**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.  
**DOT Hazard Class:**  
**UN/NA Number:**

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Not Regulated.  
**UN Number:**  
**Hazard Class:**

**Packing Group:**

**IMDG MFAG Number:**

**IMDG EMS Page:**

No

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** 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)
136210-30-5	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester	No	No	No
NA	Secondary Diamines	No	No	No
88917-22-0	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	No	No	No
623-91-6	Diethyl fumarate	No	No	No
54914-37-3	1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine	No	No	No
67762-90-7	Siloxanes and silicones, di-me, reaction products	No	No	No

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	with silica			
1318-02-1	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite,	No	No	No

**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

**16. Other Information**

**Revision Date:** 05/11/2020

**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.

**Company Policy or Disclaimer:** The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however the Key Resin Company makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.