Part B

470 / 471 RCB Polyaspartic Coating Hardeners

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1. Product and Company Identification

Product Code: 470/471-RCB

Product Name: 470 / 471 RCB Polyaspartic Coating Hardeners Part B

Key Resin Company **Company Name: Phone Number:** +1 (513)943-4225

4050 Clough Woods Dr.

Batavia, OH 45103

Chemtrec (USA) (800)424-9300 **Emergency Contact:**

> Chemtrec (International) +1 (703)527-3887

Industrial floor coatings. Intended Use:

2. Hazards Identification

Acute Toxicity: Inhalation, Category 4 Respiratory Sensitization, Category 1 Skin Sensitization, Category 1





Warning Danger

GHS Hazard Phrases: H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H373 - May cause damage to lungs through prolonged or repeated exposure.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. **GHS Precaution Phrases:**

P285 - In case of inadequate ventilation wear respiratory protection.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a GHS Response Phrases:

position comfortable for breathing.

P342+311 - If experiencing respiratory symptoms call a POISON CENTER or

doctor/physician.

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P363 - Wash contaminated

clothing before reuse.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a

POISON CENTER or doctor/physician.

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.

GHS Storage and Disposal

Phrases:

P501 - Dispose of contents/container to local, state, and federal authority requirements.

P402 - Store in a dry place.

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

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Potential Health Effects

May cause slight skin irritation or skin sensitization. May be slightly irritating to eyes and

(Acute and Chronic):

respiratory system.

Inhalation: May cause respiratory irritation. May cause allergic respiratory reaction.

Skin Contact: May cause skin irritation. May cause allergic skin reaction.

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Medical Conditions Generally Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

Aggravated By Exposure:

3.	Com	position	/Information	on Ingredients
•		P	/	

CAS#	Hazardous Components (Chemical Name)	Concentration				
28182-81-2	Poly(hexamethylene diisocyanate)	>=99 %				

4. First Aid Measures

Emergency and First Aid

Procedures:

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.

In Case of Inhalation: 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.

In Case of Skin 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 or

persists.

In Case of Eye Contact: 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.

In Case of Ingestion: 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.

Signs and Symptoms Of

Exposure:

Mild irritation effect. May cause allergic skin reaction. If material is heated, sprayed, vapors from this material can produce asthmatic sensitization to the respiratory system.

Note to Physician: Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid

preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from

further exposure to any diisocyanate.

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5. Fire Fighting Measures

Flash Pt: > 300.00 F (148.9 C) Method Used: Closed Cup

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

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry extinguishing media, foam.

Unsuitable Extinguishing

Reacts with water, with formation of carbon dioxide.

Media:

Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

Flammable Properties and

Closed container may rupture (due to build up in pressure) when exposed to extreme

Hazards:

heat.

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: Steps To Be Taken In Case

Prevent entry into waterways, sewers, basements or confined areas. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Material Is Released Or

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

Spilled:

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:

Other Precautions: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
28182-81-2	Poly(hexamethylene diisocyanate)	No data.	No data.	No data.

Respiratory Equipment

Respiratory protection in case of vapor/aerosol release. Combination filter for

Store away from incompatible material. Store in cool/well-ventilated place.

(Specify Type):

gases/vapors of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2). In isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications or other situations such as high temperature use which

may produce inhalation exposures.

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

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.

Work/Hygienic/Maintenance

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash

Practices:

thoroughly after handling.

Environmental Exposure

Controls:

Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous

to the environment if released in large quantities.

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9. Physical and Chemical Properties

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

Appearance and Odor: Odor: Mild.

Appearance: Clear.

Melting Point:NEBoiling Point:NEDecomposition Temperature:NE

Autoignition Pt: No data.

Flash Pt: > 300.00 F (148.9 C) Method Used: Closed Cup

Explosive Limits: LEL: NE UEL: NE

Specific Gravity (Water = 1): ~ 1.169

Density: ~ 9.75 LB/GL

Vapor Pressure (vs. Air or

mm Hg):

Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: NP
Saturated Vapor NE

Concentration:

Percent Volatile: N.A.
VOC / Volume: NP

10. Stability and Reactivity

Reactivity: Reacts with alcohols, amines. Reacts with water, with formation of carbon dioxide.

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Instability:

Avoid:

Extreme temperatures.

Incompatibility - Materials To Reacts with alcohols, amines. Reacts with water, with formation of carbon dioxide.

Hazardous Decomposition Or Carbon monoxide, Oxides of nitrogen, Traces of hydrogen cyanide, Isocyanate vapors

Byproducts:

Possibility of Hazardous Will occur [] Will not occur [X]

Polymerization:

Conditions To Avoid - Extreme temperatures. Will not undergo hazardous polymerization in normal storage

Hazardous Reactions: conditions.

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11. Toxicological Information

Toxicological Information: May cause sensitization by inhalation. May cause sensitization by skin contact.

Irritation or Corrosion: May cause slight skin irritation or skin sensitization. May be slightly irritating to eyes and

respiratory system.

Symptoms related to

Toxicological Characteristics:

May cause respiratory sensitization. May cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates,

further exposure is not recommended.

Chronic Toxicological

Effects:

Respiratory or skin sensitization.

12. Ecological Information

General Ecological

Avoid release to the environment.

Information:

Results of PBT and vPvB

assessment:

No data available.

Persistence and

Not readily biodegradable.

Degradability:

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: Industrial Floor Coating, NOT Regulated.

DOT Hazard Class: UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Industrial Floor Coating, NOT Regulated.

UN Number: Packing Group:

Hazard Class:

IMDG MFAG Number:

IMDG EMS Page:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Industrial Floor Coating, NOT Regulated.

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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)
28182-81-2	Poly(hexamethylene diisocyanate)	No	No	No

This material meets the EPA [X] Yes [] No Acute (immediate) Health Hazard 'Hazard Categories' defined [X] Yes [] No Chronic (delayed) Health Hazard

for SARA Title III Sections [] Yes [X] No Fire Hazard

311/312 as indicated: [] Yes [X] No Sudden Release of Pressure Hazard

[] Yes [X] No Reactive Hazard

16. Other Information

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Additional Information About CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED

This Product: NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or The information contained in this MSDS is taken from sources believed to be accurate as Disclaimer:

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