

## 630NT-ESD Chemical Resistant Epoxy Hardener

Printed: 01/27/2021

Revision: 01/27/2021

## Part B

## 1. Product and Company Identification

**Product Code:** 630NT-ESD-RCB  
**Product Name:** 630NT-ESD Chemical Resistant Epoxy Hardener Part B

**Company Name:** Key Resin / Flowcrete  
 4050 Clough Woods Dr.  
 Batavia, OH 45103

**Phone Number:** +1 (513)943-4225

**Emergency Contact:** Chemtrec (USA) (800)424-9300  
 Chemtrec (International) +1 (703)527-3887

**Intended Use:** Industrial floor coatings.

## 2. Hazards Identification

Skin Sensitization, Category 1B

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

Acute Toxicity: Oral, Category 4

Acute Toxicity: Inhalation, Category 4

Acute Toxicity: Skin, Category 4



Warning



Danger

**GHS Hazard Phrases:**

H317 - May cause an allergic skin reaction.  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage.  
 H302 - Harmful if swallowed.  
 H332 - Harmful if inhaled.

**GHS Precaution Phrases:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P362+364 - Take off contaminated clothing and wash it before reuse.  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P281 - Use personal protective equipment as required.

**GHS Response Phrases:**

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P333+313 - If skin irritation or rash occurs, seek 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.  
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.  
 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.

**GHS Storage and Disposal Phrases:**

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

**OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

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Revision: 01/27/2021

## Part B

<b>Potential Health Effects (Acute and Chronic):</b>	Corrosive to eyes and skin. Causes burns. May be harmful if swallowed. Irritating to respiratory system. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Aspiration hazard if swallowed. Can enter lungs and cause damage.
<b>Inhalation:</b>	Corrosive to respiratory tract. May cause respiratory sensitization.
<b>Skin Contact:</b>	Contact with substance may cause severe burns to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
<b>Eye Contact:</b>	Corrosive/irritation to eyes. Causes eye burns.
<b>Ingestion:</b>	Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
<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	
2855-13-2	Isophoronediamine	70 - 85 %	
15520-10-2	1,5-Pentanediamine, 2-methyl-	1.0 - 10 %	
84852-15-3	Phenol, 4-nonyl-, branched	1.0 - 10 %	
100-51-6	Benzenemethanol	1.0 - 5.0 %	

### 4. First Aid Measures

#### Emergency and First Aid

##### Procedures:

<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. Get medical attention immediately.
<b>In Case of Ingestion:</b>	If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

#### Signs and Symptoms Of Exposure:

Moderate irritation effect.

## 630NT-ESD Chemical Resistant Epoxy Hardener

Printed: 01/27/2021

Revision: 01/27/2021

## Part B

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	~ 200.00 F (93.3 C) 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>	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. Where splashing is possible, full chemically resistant protective clothing, and boots are required.
<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. 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. Wear all personal protection required in section 8.
<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.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
2855-13-2	Isophoronediamine	No data.	No data.	No data.
15520-10-2	1,5-Pentanediamine, 2-methyl-	No data.	No data.	No data.
84852-15-3	Phenol, 4-nonyl-, branched	No data.	No data.	No data.
100-51-6	Benzenemethanol	No data.	No data.	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.

## 630NT-ESD Chemical Resistant Epoxy Hardener

Printed: 01/27/2021

Revision: 01/27/2021

## Part B

<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 runoff into storm sewers and ditches which lead to waterways.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Odor: fish-like. Appearance: Liquid. amber.
<b>Melting Point:</b>	NE
<b>Boiling Point:</b>	NE
<b>Decomposition Temperature:</b>	NE
<b>Autoignition Pt:</b>	No data.
<b>Flash Pt:</b>	~ 200.00 F (93.3 C)    Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: NE    UEL: NE
<b>Specific Gravity (Water = 1):</b>	~ 1.00 - 1.019
<b>Density:</b>	~ 8.35 - 8.40 LB/GL
<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>	Soluble
<b>Saturated Vapor Concentration:</b>	NE
<b>Percent Volatile:</b>	N.A.
<b>VOC / Volume:</b>	NP

## 10. Stability and Reactivity

<b>Reactivity:</b>	Avoid: acids, alkalis, oxidizing agents.
<b>Stability:</b>	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Instability:</b>	Extreme temperatures.
<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, and phenolics.
<b>Possibility of Hazardous Polymerization:</b>	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions:</b>	Will not undergo hazardous polymerization in normal storage conditions.

Page: 5

**SAFETY DATA SHEET**  
**630NT-ESD Chemical Resistant Epoxy Hardener**  
**Part B**

Printed: 01/27/2021  
Revision: 01/27/2021

### 11. Toxicological Information

<b>Toxicological Information:</b>	May cause sensitization by skin contact.
<b>Irritation or Corrosion:</b>	Corrosive! Damages skin and eyes.
<b>Symptoms related to Toxicological Characteristics:</b>	Skin: Contact with substance may cause severe burns to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Permanent eye damage including blindness could result. Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort, coughing or difficulty breathing.
<b>Chronic Toxicological Effects:</b>	Skin sensitization.

### 12. Ecological Information

<b>General Ecological Information:</b>	Avoid release to the environment. Do not empty into drains. 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 readily biodegradable.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	not reported, unknown.

### 13. Disposal Considerations

<b>Waste Disposal Method:</b>	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.
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### 14. Transport Information

#### LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Modified Cycloaliphatic Amines)		
<b>DOT Hazard Class:</b>	8	CORROSIVE	
<b>UN/NA Number:</b>	UN1719	<b>Packing Group:</b>	III
<b>Precautionary Label:</b>	Corrosive! Damages skin and eyes. Avoid skin and eye contact. May cause eye and skin irritation. May cause skin sensitization. Wear protective equipment and clothing. Always read MSDS/SDS before use.		



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

<b>IMDG/IMO Shipping Name:</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Modified Cycloaliphatic Amines)		
<b>UN Number:</b>	1719	<b>Packing Group:</b>	III
<b>Hazard Class:</b>	8 - CORROSIVE		
<b>IMDG EMS Number:</b>	FA,SB	<b>IMDG MFAG Number:</b>	
<b>IMDG EMS Page:</b>			No

**SAFETY DATA SHEET**  
**630NT-ESD Chemical Resistant Epoxy Hardener**  
**Part B**

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

**ICAO/IATA Shipping Name:** CAUSTIC ALKALI LIQUID, N.O.S. (Modified Cycloaliphatic Amines)

**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)
2855-13-2	Isophoronediamine	No	No	No
15520-10-2	1,5-Pentanediamine, 2-methyl-	No	No	No
84852-15-3	Phenol, 4-nonyl-, branched	No	No	No
100-51-6	Benzenemethanol	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:** 01/27/2021

**Hazard Rating System:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL</b>	<b>0</b>
<b>PPE</b>	<b>X</b>

**HMIS:**

**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.