

## 635 Plus+ Moisture Vapor Treatment (MVT)

Printed: 08/19/2020

Revision: 08/04/2020

## Part-A

Supersedes Revision: 06/11/2015

## 1. Product and Company Identification

<b>Product Code:</b>	635-PLUS+MVT-A	
<b>Product Name:</b>	635 Plus+ Moisture Vapor Treatment (MVT) Part-A	
<b>Trade Name:</b>	635 Moisture Vapor Treatment (MVT) Part-A	
<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

Aquatic Toxicity (Chronic), Category 2



Warning

**GHS Hazard Phrases:**

H315 - Causes skin irritation.  
 H320 - Causes eye irritation.  
 H317 - May cause an allergic skin reaction.  
 H411 - Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:**

P262 - Do not get in eyes, on skin, or on clothing.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P362+364 - Take off contaminated clothing and wash it before reuse.  
 P273 - Avoid release to the environment.

**GHS Response Phrases:**

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P361 - Take off immediately all 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. P337+313 - If eye irritation persists, get medical advice/attention.  
 P304+341 - IF INHALED: If breathing is difficult, remove 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.  
 P391 - Collect spillage.

**GHS Storage and Disposal Phrases:**

P501 - Dispose of contents/container to local, state, and federal authority requirements.  
 P404 - Store in a closed container.

**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 skin and eye irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
<b>Inhalation:</b>	May cause respiratory irritation.
<b>Skin Contact:</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Medical Conditions Generally Aggravated By Exposure:</b>	May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	60 - 80 %	
68609-97-2	Oxirane, Mono.((C12-14-alkyloxy)methyl.). derivs.	<15 %	
17557-23-2	Oxirane, 2,2'-[(2,2-Dimethyl-1,3-propanediyl)bis(oxymethyl enE)]BIS-	<15 %	
28064-14-4	Phenol-Formaldehyde Polymer	<10 %	

### 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. Call a physician.
<b>In Case of Ingestion:</b>	If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. For further assistance, contact your local Poison Control Center.

**Signs and Symptoms Of Exposure:** Moderate irritation effect.

### 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>	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

<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. 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.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	No data.	No data.	No data.
68609-97-2	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	No data.	No data.	No data.
17557-23-2	Oxirane, 2,2'-[(2,2-Dimethyl-1,3-propanediyl)bis(oxymethylenE)]BIS-	No data.	No data.	No data.
28064-14-4	Phenol-Formaldehyde Polymer	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.
<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.

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## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [X] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Slight odor. Appearance: Liquid. Clear.	
<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>	~ 1.115	
<b>Density:</b>	~ 9.30 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>	NP	
<b>Saturated Vapor Concentration:</b>	NE	
<b>Percent Volatile:</b>	NP 0.0 % by volume.	
<b>VOC / Volume:</b>	NP	

## 10. Stability and Reactivity

<b>Reactivity:</b>	Avoid: acids, alkalis, oxidizing agents.
<b>Stability:</b>	Unstable [ ] Stable [X]
<b>Conditions To Avoid - Instability:</b>	Extreme temperatures.
<b>Incompatibility - Materials To Avoid:</b>	Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.
<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 [ ] Will not occur [X]
<b>Conditions To Avoid - Hazardous Reactions:</b>	Will not undergo hazardous polymerization in normal storage conditions.

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## 11. Toxicological Information

<b>Toxicological Information:</b>	Skin sensitization.
<b>Irritation or Corrosion:</b>	Skin Irritation. Irritating to eyes.
<b>Symptoms related to Toxicological Characteristics:</b>	May cause redness, rash on skin. May cause slight skin irritation or skin sensitization. May be slightly irritating to eyes and respiratory system.
<b>Chronic Toxicological Effects:</b>	May cause sensitization by skin contact.

## 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 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):

**DOT Proper Shipping Name:** (Non-Bulk)  
Not Regulated.

(Bulk)  
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

**DOT Hazard Class:**

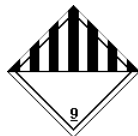
9 CLASS 9

**UN/NA Number:**

UN3082

**Packing Group:**

III



## MARINE TRANSPORT (IMDG/IMO):

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

(Bulk)  
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

Note: The presence of a shipping description for a particular mode of transport

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(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.

**UN Number:** 3082 **Packing Group:** III  
**Hazard Class:** 9 - CLASS 9  
**IMDG EMS Number:** FA,SF **IMDG MFAG Number:**  
**IMDG EMS Page:** Yes

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

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

(Bulk)  
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

## 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)
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	No	No	No
68609-97-2	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	No	No	No
17557-23-2	Oxirane, 2,2'-[(2,2-Dimethyl-1,3-propanediyl)bis(oxymethyl enE)]BIS-	No	No	No
28064-14-4	Phenol-Formaldehyde Polymer	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

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

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## 16. Other Information

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Hazard Rating System:

HEALTH	2
FLAMMABILITY	1
PHYSICAL	0
PPE	X

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.