	HEALTH FLAMMABILI PHYSICAL PPE	2 1 0 X	Printed: 05/14/20 Revision: 12/23/20
1. P	roduct and	Company	/ Identification
Product Code:	615-CLEAR		
Product Name:	615 Clear Chemical Resistant Epoxy Binder		
Trade Name:	615 Clear Cl	nemical Resista	ant Epoxy Binder
Manufacturer Information			
Company Name:	Key Resin C	ompany	
	4050 Clough Woods Dr.		
	Batavia, OH	45103	
Phone Number:	+1 (513)943	3-4225	
Emergency Contact:	Chemtrec (U		(800)424-9300
Alternate Emergency Contact:	Chemtrec (Ir		+1 (703)527-3887
		rds Identif	
GHS Classification	Placard	Key word	GHS hazard phrase
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation
Serious Eye Damage/Eye Irritation, Catego 2B	ory none	Warning	Causes eye irritation
Skin Sensitization, Category 1	Exclamation point	Warning	May cause an allergic skin reaction
Aquatic Toxicity (Acute), Category 2	none		Toxic to aquatic life
Aquatic Toxicity (Chronic), Category 2	Pollution		Toxic to aquatic life with long lasting effects
GHS Hazard Phrases			
H315 - Causes skin irritation.			
H320 - Causes eye irritation. H317 - May cause an allergic s	kin reaction		
H401 - Toxic to aquatic life.	Kill Teaction.		
H411 - Toxic to aquatic life wi	th long lasting e	ffects.	
GHS Precaution Phrases	6		
P280 - Wear protective gloves/	protective cloth	ing/eye protect	ion/face protection.
P261 - Avoid breathing dust/fu	me/gas/mist/vap	oors/spray.	
P262 - Do not get in eyes, on s	skin, or on cloth	ing.	
P273 - Avoid release to the env	vironment.		
GHS Response Phrases			
-	h with plenty of	soap and wate	r. P332+313 - If skin irritation occurs, get medical
advice/attention.		•	
P362 - Take off contaminated of	clothing.		
P305+351+338 - IF IN EYES:	Rinse cautiously	y with water for	r several minutes. Remove contact lenses, if prese
			persists, get medical advice/attention.

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.

Potential Health Effects (Acute and Chronic)

May cause eye irritation. May cause skin 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.

Recommended Exposure Limits

Not established.

Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients

На	azardous Components (Chemical Name)	CAS #	Concentration	
1.	Bisphenol-a based epoxy resin	25068-38-6	70 - 90 %	
2.	Phenol-Formaldehyde Polymer	28064-14-4	5.0 - 15 %	
3.	Benzenemethanol	100-51-6	1.0 - 10 %	
4.	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	68609-97-2	1.0 - 10 %	
5.	2,4-Pentanediol, 2-Methyl-	107-41-5	1.0 - 10 %	
		4. First	Aid Measures	

Emergency and First Aid Procedures

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

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 Mea	sures	
Flash Pt:	> 200.00 C Method Used: F		
Explosive Limits:	LEL: NE UEL:	NE	
Autoignition Pt:	No data available.		
Fire Fighting Instructions			
Protective Equipment: Wear self-	ontained breathing apparatus a	nd protective clothing to preve	ent contact with
skin and eyes.	and a creating apparate a		
Flammable Properties and Hazards			
Product is not considered a fire h	zard. Closed containers may ru	pture (due to build up in pressu	ure) when expose
to extreme heat.	5		
Hazardous Combustion Products			
Hazardous decomposition produc	s formed under fire conditions.	Carbon dioxide, Carbon mono	oxide, Aldehydes.
Phenolics.			-
Suitable Extinguishing Media			
Dry chemical, CO2, water spray	r regular foam.		
Unsuitable Extinguishing Media			
Do not use a direct water stream,	which may spread fire.		
6.	Accidental Release M	leasures	
Steps To Be Taken In Case Material	Released Or Spilled		
PROCEDURE TO BE FOLLOW		PILL.	
Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.			
Absolution with salid of verificante a	nd place in closed containers fo	or disposal. Ventilate the area.	
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Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

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.

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. May be hazardous to the environment if released in large quantities.

9. Physical and Chemical Properties			
Physical States:	[]Gas [X]Liquid []Solid		
Melting Point:	NE		
Boiling Point:	NE		
Decomposition Temperature:	NE		
Autoignition Pt:	No data.		
Flash Pt:	> 200.00 C 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:	No data.		
Solubility Notes			
Practically insoluble.			
Percent Volatile:	0.0 % by volume.		
VOC / Volume:	NP		
HAP / Volume:	NP		

Saturated Vapor Concentration:

Appearance and Odor

Slight odor.

Appearance: Liquid, Clear to light vellow.

NE

Appearance: Liquid. Clear to light yellow.					
10. Stability and Reactivity					
Stability: U	nstable []	Stable [X]			
Reactivity					
Avoid: acids, alkalis, oxidizing agen	ts.				
Conditions To Avoid - Instability					
Extreme temperatures.					
Incompatibility - Materials To Avoid	*				
Avoid strong acids, bases, and oxidi	zing agents.	Avoid uncontro	lled contact with	amines.	
Hazardous Decomposition Or Byprodu	cts				
Thermal decomposition may produc	e smoke, car	bon monoxide,	carbon dioxide, a	ldehydes. Phenolic	es.
Possibility of Hazardous W	ill occur []	Will not occ	cur [X]		
Polymerization:					
Conditions To Avoid - Hazardous Reac	tions				
Will not undergo hazardous polymer	rization in no	ormal storage co	onditions.		
11. Toxicological Information					
Toxicological Information					
May cause sensitization by skin contact.					
Chronic Toxicological Effects					
Skin sensitization.					
Irritation or Corrosion					
Skin Irritation. Irritating to eyes.					
Symptoms related to Toxicological Characteristics					
Skin Irritation. Slight Irritant to eyes.					
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Bisphenol-a based epoxy resin	25068-38-6	n.a.	n.a.	n.a.	n.a.
2. Phenol-Formaldehyde Polymer	28064-14-4	n.a.	n.a.	n.a.	n.a.
3. Benzenemethanol	100-51-6	n.a.	n.a.	n.a.	n.a.
 Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs. 	68609-97-2	n.a.	n.a.	n.a.	n.a.
5. 2,4-Pentanediol, 2-Methyl-	107-41-5	No	No	No	No
12. Ecological Information					

General Ecological Information

Avoid release to the environment. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

Not readily biodegradable.

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	(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	
DOT Hazard Label:	CLASS 9	
UN/NA Number:	UN3082	
Packing Group:	III	
Precautionary Label	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.	
LAND TRANSPORT (Canadian TDG))	
TDG Shipping Name	Synthetic Resin Liquid. Not Regulated.	
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.	
UN Number:	3082	
Hazard Class:	9 - CLASS 9	
Packing Group:	III	
MARINE TRANSPORT (IMDG/IMO)		
IMDG/IMO Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.	
	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.	

UN Number:	3082
Hazard Class:	9 - CLASS 9
Packing Group:	III
Marine Pollutant:	No

15. Regulatory Information

Regulatory Information

SARA 302 Extremely Hazardous Substances: None.

SARA Section 311/312: Acute Health Hazard.

SARA 313 Toxic Chemicals: None.

CERCLA Reportable Quantity: None.

16. Other Information

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.

Revision Date:

12/23/2014