

# 644 Chemical Resistant Epoxy Wall Coating- Part A (Pigmented)



<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL</b>	<b>0</b>
<b>PPE</b>	<b>X</b>

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## 1. Product and Company Identification

**Product Code:** 644-000

**Product Name:** 644 Chemical Resistant Epoxy Wall Coating- Part A (Pigmented)

**Trade Name:** 644 Chemical Resistant Epoxy Wall Coating- Part A (Pigmented)

**Manufacturer Information**

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

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

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

**Alternate Emergency Contact:** Chemtrec (International) +1 (703)527-3887

**Intended Use:** Industrial floor coatings.

## 2. Hazards Identification

GHS Classification	Placard	Key word	GHS hazard phrase
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation
Serious Eye Damage/Eye Irritation, Category 2B	none	Warning	Causes eye irritation
Skin Sensitization, Category 1B	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 skin reaction.  
 H401 - Toxic to aquatic life.  
 H411 - Toxic to aquatic life with long lasting effects.

### GHS Precaution Phrases

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P261 - Avoid breathing dust/mist/vapors/spray.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 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. P332+313 - If skin irritation occurs, get medical advice/attention. P362 - Take off contaminated clothing.  
 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+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.  
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER

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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)**

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.

**Recommended Exposure Limits**

Not established.

**OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

**3. Composition/Information on Ingredients**

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Bisphenol-a based epoxy resin	25068-38-6	35 - 55 %
2. Talcum	14807-96-6	15 - 30 %
3. Phenol-Formaldehyde Polymer	28064-14-4	1.0 - 10 %
4. Benzenemethanol	100-51-6	5.0 - 15 %
5. Silica, amorphous treated	112945-52-5	1.0 - 10 %
6. Oxirane, Mono.((C12-14-alkyloxy)methyl). derivs.	68609-97-2	1.0 - 10 %
Tinted product may contain ingredients below:		
7. Iron oxide (Fe2O3)	1309-37-1	0 - 10 %
8. C.I. Pigment Yellow 42	51274-00-1	0 - 10 %
9. Carbon black	1333-86-4	0 - 10 %
10. Titanium dioxide	13463-67-7	0 - 10 %

**4. First Aid Measures**

**Emergency and First Aid Procedures**

Rescuers should put on appropriate protective gear. Remove from area of exposure.

**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.

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**Signs and Symptoms Of Exposure**

Moderate irritation effect.

**5. Fire Fighting Measures**

**Flash Pt:** > 200.00 F Method Used: Pensky-Marten Closed Cup

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

**Autoignition Pt:** No data available.

**Fire Fighting Instructions**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Flammable Properties and Hazards**

Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

**Hazardous Combustion Products**

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Phenolics.

**Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam.

**Unsuitable Extinguishing Media**

Do not use a direct water stream, which may spread fire.

**6. Accidental Release Measures**

**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.

**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.

**7. Handling and Storage**

**Hazard Label Information:**

Avoid contact with skin and eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist.

Store in a closed container.

**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**

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Bisphenol-a based epoxy resin	25068-38-6	No data.	No data.	No data.
2. Talcum	14807-96-6	706 ppm/20 mppcf	2 mg/m3 (non-asbestos)	No data.
3. Phenol-Formaldehyde Polymer	28064-14-4	No data.	No data.	No data.
4. Benzenemethanol	100-51-6	No data.	No data.	No data.
5. Silica, amorphous treated	112945-52-5	No data.	No data.	No data.

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Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
6. Oxirane, Mono.((C12-14-alkyloxy)methyl). derivs.	68609-97-2	No data.	No data.	No data.
7. Iron oxide (Fe2O3)	1309-37-1	10 mg/m3	5 mg/m3 (dust & fume)	No data.
8. C.I. Pigment Yellow 42	51274-00-1	No data.	No data.	No data.
9. Carbon black	1333-86-4	3.5 mg/m3	3.5 mg/m3	No data.
10. Titanium dioxide	13463-67-7	15 (dust) mg/m3	10 mg/m3	No data.

**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.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<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 Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: NE UEL: NE
<b>Specific Gravity (Water = 1):</b>	~ 1.379 - 1.439
<b>Density:</b>	~ 11.5 - 12.0 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

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**Percent Volatile:** 0.0 % by volume.  
**VOC / Volume:** NP  
**HAP / Volume:** NP  
**Saturated Vapor Concentration:** NE

**Appearance and Odor**

Slight odor.  
Appearance: Liquid. Various Colors.

**10. Stability and Reactivity**

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

**Reactivity**

Avoid: acids, alkalis, oxidizing agents.

**Conditions To Avoid - Instability**

Extreme temperatures.

**Incompatibility - Materials To Avoid**

Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

**Hazardous Decomposition Or Byproducts**

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and phenolics.

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

**Polymerization:**

**Conditions To Avoid - Hazardous Reactions**

Will not undergo hazardous polymerization in normal storage conditions.

**11. Toxicological Information**

**Toxicological Information**

Contains: Phenol-Formaldehyde Polymer (28064-14-4)

Oral LD50 >2000 mg/kg Species:Rat/ adult

Dermal LD50>2000 mg/kg Species:Rabbit/ adult.

**Chronic Toxicological Effects**

No data available.

**Irritation or Corrosion**

Skin Irritation. Irritating to eyes. Species: Rabbit.

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. Talcum	14807-96-6	n.a.	n.a.	n.a.	n.a.
3. Phenol-Formaldehyde Polymer	28064-14-4	n.a.	n.a.	n.a.	n.a.
4. Benzenemethanol	100-51-6	n.a.	n.a.	n.a.	n.a.
5. Silica, amorphous treated	112945-52-5	n.a.	n.a.	n.a.	n.a.
6. Oxirane, Mono.((C12-14-alkyloxy)methyl). derivs.	68609-97-2	n.a.	n.a.	n.a.	n.a.
7. Iron oxide (Fe2O3)	1309-37-1	n.a.	3	A4	n.a.
8. C.I. Pigment Yellow 42	51274-00-1	n.a.	n.a.	n.a.	n.a.
9. Carbon black	1333-86-4	n.a.	2B	A4	n.a.
10. Titanium dioxide	13463-67-7	n.a.	2B	A4	n.a.

**12. Ecological Information**

**General Ecological Information**

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

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**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)  
PROPER SHIPPING NAME: UN3082, 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.

**AIR TRANSPORT (ICAO/IATA)**

**ICAO/IATA Shipping Name**

(Non-Bulk)  
Not Regulated.

(Bulk)  
PROPER SHIPPING NAME: UN3082, 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

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## MARINE TRANSPORT (IMDG/IMO)

## IMDG/IMO Shipping Name

PROPER SHIPPING NAME: UN3082, 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

## IMDG EMS Number:

FA-SF

## Marine Pollutant:

Yes

## 15. Regulatory Information

## US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Bisphenol-a based epoxy resin	25068-38-6	No	No	No	No
2. Talcum	14807-96-6	No	No	No	No
3. Phenol-Formaldehyde Polymer	28064-14-4	No	No	No	No
4. Benzenemethanol	100-51-6	No	No	No	No
5. Silica, amorphous treated	112945-52-5	No	No	No	No
6. Oxirane, Mono.-(C12-14-alkyloxy)methyl). derivs.	68609-97-2	No	No	No	No
7. Iron oxide (Fe2O3)	1309-37-1	No	No	No	No
8. C.I. Pigment Yellow 42	51274-00-1	No	No	No	No
9. Carbon black	1333-86-4	No	No	No	No
10. Titanium dioxide	13463-67-7	No	No	No	No

## Regulatory Information

SARA Section 311/312: Acute Health Hazard.

## 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:

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