



Safety Data Sheet

RF 1029

Section 1. Identification

Product Identifier	RF 1029		
Synonyms	Epoxy Resin		
Manufacturer Stock Numbers	11761		
Recommended use	Epoxy Resin		
Uses advised against	Avoid high temperatures. Avoid flames. Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids. In reactions with many curing agents, considerable heat is released.		
Manufacturer Contact			
Address	Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA		
	Phone	Emergency Phone	Fax
	(310) 204-6159	(800) 424-9300 CHEMTREC	(310) 202-7247
	Email	Website	
	sales@evroberts.com	http://www.evroberts.com	

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - DERMAL - Category 5 ACUTE TOXICITY - ORAL - Category 5 EYE DAMAGE/IRRITATION - Category 2B
Signal Word	Warning
Pictogram	

Hazard Statements	Causes eye irritation May be harmful if swallowed May be harmful in contact with skin
Precautionary Statements	
Response	Call a poison center/doctor/ ... /if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Prevention	Wash ...thoroughly after handling.
Storage	Protect from sunlight. Store in a well-ventilated place.
Disposal	N/A

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Emergency Overview Human health hazards:
May be irritating to the eyes and skin. Contact with hot material can cause thermal burns. May cause skin sensitization.

Safety hazards:
Material will not burn unless preheated.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	50 %
25038-04-4	Glycerol/Epichlorohydrin Resin	50 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Skin	For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh can be easily torn.
Eye Contact	Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. Flushing within one minute is essential to achieve effectiveness. Obtain medical attention IMMEDIATELY.
Ingestion	Do NOT Induce Vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, if conscience, wash out their mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

Additional Information

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Extinguishing Media:
Carbon dioxide, dry chemical, foam or water fog.

Fire and Explosion Hazards:
Material will not burn unless preheated.

Clear fire area of all non-emergency personnel. Cool fire exposed containers with water. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of containers structure.

Protective Equipment:
Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear a NIOSH-approved respirator as required to prevent over-exposure in accordance with 29 CFR 1910-134 for fire fighting if necessary.

Unsuitable Extinguishing Media

N/A

Section 6. Accidental Release Measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8)

Environmental Precautions

Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways. Construct a dike to prevent spreading.

Small Spills

Stop leak if without risk. Move containers from spill area. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Major Spills

For Major Spills, call CHEMTREC at 1-800-424-9300

Section 7. Handling and Storage

Handling Precautions Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly after handling. **WARNING!** May cause skin and eye irritation. May cause skin sensitization. This resin may be handled, shipped and stored at elevated temperature in bulk. The recommended pumping temperature is 180°F. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes cannot be decontaminated and should be destroyed to prevent reuse. To prevent thermal burns avoid contact with hot product.

Storage Requirements Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from open flames and high temperatures.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	N/A	none	N/A
	Glycerol/Epichlorohydrin Resin	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Face Shield, Respirator, CHEMICAL GOGGLES			
Respiratory Protection	Wear appropriate respirator when ventilation is inadequate.			
Protective Clothing	Avoid contact with eyes. Wear safety goggles as appropriate. Wear chemical resistant clothing as required to minimize contact			
Eye Protection	Chemical safety goggles. If there is a potential for splashing, use a full-face shield.			
Hand protection	Neoprene gloves. Butyl-rubber. EVAL-Laminate			
Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
Exposure Guidelines	Components with specific control parameters for workplace: Reaction product : bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Regulation : ACGIH Remarks : None established			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear
Odor	N/A
Odor Threshold	N/A
Solubility	Negligible
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	1.17
Pounds per Cubic Foot	N/A
Flash Point	249°C (480° F)
FP Method	Pensky-Martens
Ph	N/A
Melting Point	N/A
Boiling Point	> 260°C (> 500°F)
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	0.03 mbar at 77°C (171°F)
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid high temperatures. Avoid flames and contact with strong oxidizing agents.
Materials to Avoid	Can react vigorously with strong oxidizing agents, strong Lewis or mineral acid, and strong mineral and organic bases. Avoid contact with water or liquids. Do not allow molten product to contact water or other liquids. This can cause violent eruptions, splatter hot material, or ignite flammable material. Reaction with some curing agents may produce considerable heat and possible violent decomposition.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Acute Oral Effects (LD50)	>2000 mg/Kg (rats)
Acute Dermal Toxicity (LD50)	>2000 mg/Kg (rabbit)
Chronic Health Hazard	Components: Reaction product : bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Concentration: 100 Regulation: US IARC Monographs on Occupational Exposures to Chemical Agents Value: N/A Remarks: This component has not been classified by the International Agency for Research on Cancer (IARC).
Sensitization	Potential skin and respiratory sensitizer
Mutagenicity	Resins of this type, liquid resins based on diglycidyl ether of bisphenol A have proved to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in-vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown.
POTENTIAL HEALTH EFFECTS:	
Inhalation	Not expected to be relevant route of exposure. However, high vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.
Skin	May be mildly irritating to the skin. Contact with hot material can cause thermal burns which may result in permanent damage. May cause skin sensitization.
Eyes	May be mildly irritating to the eyes. Contact with hot material can cause thermal burns which may result in permanent damage or blindness.
Ingestion	This is not considered a common occupation route of exposure, and single dose toxicity is low.

Section 12. Ecological Information

Environmental effects	No known significant effects or critical hazards.
Other Adverse Effects	No known significant effects or critical hazards.

Section 13. Disposal

Disclaimer Part 1	The generation of waste should be avoided or minimized wherever possible.
Disclaimer Part 2	Disposal should be in accordance with local, state, provincial and national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a liquid decontaminate. The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.
Disclaimer Part 3	Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	N/A
DOT Classification	N/A
Packing Group	N/A
Disclaimer	The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Section 15. Regulatory Information

HCS Classification	Irritating material, Sensitizing material
U.S. Federal Regulations	SARA 311/312 CLASSIFICATION: Immediate (acute) health hazard. Reactive SARA 313 - SUPPLIER NOTIFICATION: This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. None Required SARA 302 EXTREMELY HAZARDOUS SUBSTANCES: None required
State Regulations	Federal Regulations: None Listed State Regulations: None Listed International Regulations: None Listed Massachusetts RTK Substances - None required New Jersey RTK Hazardous Substances - None required Pennsylvania RTK Hazardous Substances - None required California Prop. 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: Oxirane,(phenoxymethyl)- 122-60-1
Regulatory for Canada	WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic) Canadian Lists: Canadian NPRI: None required.
International Regulations	Chemical Inventories: Europe inventory: All components are listed or exempted. Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Korea inventory (KECI): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Japan inventory (ENCS): All components are listed or exempted. Canada inventory: All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted.

Section 16. Other Information

Revision Date

2/23/21

HMIS Rating (Not Regulated) The HMIS Rating for this product is:
Health: 2 Flammability: 1 Reactivity: 0

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

Disclaimer

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