




Safety Data Sheet

RF 2441

Section 1. Identification

Product Identifier	RF 2441
Synonyms	Epoxy resin
Manufacturer Stock Numbers	27924
Recommended use	Epoxy Resin
Uses advised against	N/A
Manufacturer Contact Address	Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA
Phone	(310) 204-6159
Emergency Phone	(800) 424-9300 CHEMTREC
Fax	(310) 202-7247
Email	sales@evroberts.com
Website	http://www.evroberts.com

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - DERMAL - Category 4 ACUTE TOXICITY - ORAL - Category 4 EYE DAMAGE/IRRITATION - Category 2B SKIN CORROSION/IRRITATION - Category 3
Signal Word	Warning
Pictogram	
Hazard Statements	Causes mild skin irritation

Harmful if swallowed
 Harmful in contact with skin
 Moderately irritating to eyes

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.
 If on skin: Wash with plenty of water/ ...
 If skin irritation occurs: Get medical advice/attention.
 If swallowed: Call a poison center/doctor/ ... / if you feel unwell.
 Rinse mouth.
 Specific treatment (see ... on this label)
 Take off immediately all contaminated clothing and wash it before reuse.

Prevention

Do not eat, drink or smoke when using this product.
 Wash ...thoroughly after handling.
 Wear protective Butyl Gloves, Face Shield, Eye Bath and Safety Shower.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container to ...

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Over-exposure signs/symptoms

Inhalation

Because of its very low volatility this product is not likely to produce any adverse effect by inhalation.

Eye

Moderately irritating to the eyes.

Skin

Can cause severe irritation or burns.
 Absorbed through skin; Prolonged or repeated exposure may result in the absorption of harmful amounts of material, resulting to allergenic effects such as rashes, itching, hives, or even open sores.

Ingestion

Product is considered to have a low order of acute oral toxicity.

Potential Health Effects

 Health Effects or Risks from Exposure.
 Acute: See section 5.

Chronic: Skin sensitization.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
9003-36-5	Bisphenol F/Epichlorohydrin Resin	<40 %
21645-51-2	Aluminum hydroxide (Al(OH)3)	<40 %
461-58-5	Cyanoguanidine	>5 %

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

Section 4. First-Aid Measures

Eye Contact	Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists repeat flushing and obtain medical attention IMMEDIATELY.
Skin Contact	Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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.
Note to Physician	In general, emesis induction is unnecessary in high viscosity, low volatility products, e.g. Neat Epoxy Resins. However, symptomatic and supportive therapy may be needed following severe exposure. In such cases, medical follow-up should be maintained for at least 48 hours.
Chronic Health Hazard, General	This product's ingredients are NOT found in the lists below: OSHA NTP IARC

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	N/A
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

Major Spills	For Major Spills, call CHEMTREC at 1-800-424-9300
Spill Response Procedures	May burn although not readily ignitable. Use cautious judgment when cleaning up large spills. Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Evacuate the area. Shut off source of leak if safe to do so. Prevent further leakage, spillage or entry into drains. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbant suck as clay, sand or other suitable material; dispose of properly. Flush area with water to remove trace residue. Small Spills - Take up with an absorbent material and dispose of properly. Preparing wastes for disposal: Solidify with clay or other absorbent in a steel drum, Consult your local authorities for an appropriate disposal facility.

Section 7. Handling and Storage

Storage Requirements	Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from open flames and high temperatures.
Respiratory Protection	Not ordinarily required. If resin is warmed or heated, vapors or mists may be produced. In such cases, use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.
Eye Protection	Wear safety glasses or goggles as appropriate
Gloves	Wear chemical-resistant gloves and other clothing as required to minimize skin contact
Other Clothing and Equipment	Avoid prolonged or repeated contact with the skin. Wear chemical-resistant gloves and other clothing as required to minimize skin contact.
Hygienic Practices	Launder contaminated clothes before wearing. Do not smoke or eat where this material is being used. Wash hands before smoking, eating or going to the bathroom
Other Handling Information	Use ventilation as required to control vapor concentrations. Protective measures during maintenance of contaminated equipment: Same as above.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Bisphenol F/Epichlorohydrin Resin	N/A	N/A	N/A
	Aluminum hydroxide (Al(OH) ₃)	N/A	N/A	N/A
	Cyanoguanidine	N/A	N/A	N/A
Personal Protective Equipment	N/A			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Viscous Black
Odor	Slight odor
Odor Threshold	N/A
Solubility	Negligible
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1.4
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	>200°F
FP Method	N/A
Ph	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	butyl acetate = 1
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids. In reactions with many curing agents, considerable heat is released.
Incompatibilities	Strong oxidizing materials
Hazardous Decomposition Products	Carbon monoxide, aldehydes and acids may be formed during combustion. Reaction with some curing agents may produce considerable heat.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

No Data Available

Section 12. Ecological Information

Ecological Information No data

Section 13. Disposal

No Data Available

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	N/A
DOT Classification	N/A
Packing Group	N/A

Section 15. Regulatory Information

EPA SARA Title III Section 312	SECTION 9 SARA Title III Section 313 Information Component : Epichlorohydrin CAS # 106898 Wt % <2 ppm
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California Prop. 65 Components	This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
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Disclaimer	The regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency.
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Section 16. Other Information

Revision Date	6/3/2015
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