



Safety Data Sheet

RF 3104 Filled Epoxy

Section 1. Identification

Product Identifier	RF 3104 Filled Epoxy		
Synonyms	RF 3104		
Manufacturer Stock Numbers	N/A		
Recommended use	Modified Epoxy Resin		
Uses advised against	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	CARCINOGENICITY - Category 2 EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE LIQUIDS - Category 4 GERM CELL MUTAGENICITY - Category 2 SENSITIZATION - SKIN - Category 1 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 2
Signal Word	Danger

Pictogram



Hazard Statements

Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if no other routes of exposure cause the hazard)
Causes mild skin irritation
Causes serious eye irritation
Combustible liquid
May cause an allergic skin reaction
May cause damage to organs (or state all organs affected if known) (state route of exposure if no other routes of exposure cause the hazard)
Moderately irritating to skin
Suspected of causing cancer (state route of exposure if no other routes of exposure cause the hazard)
Suspected of causing genetic defects (state route of exposure if no other routes of exposure cause the hazard)

Precautionary Statements

Response

Do NOT fight fire when fire reaches explosives.
Fight fire with normal precautions from a reasonable distance
Get medical advice/attention if you feel unwell.
If exposed or concerned: Call a poison center/doctor/...
If exposed or concerned: Get medical advice/attention.
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.
If on skin: Wash with plenty of water/ ...
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
In case of fire: evacuate area.
In case of fire: Use ... to extinguish.
Specific treatment (see ... on this label)
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Do not subject to grinding/shock/.../friction.
Ground/bond container and receiving equipment.
Keep away from heat.
Obtain special instructions before use.
Wash ...thoroughly after handling.
Wear eye protection/face protection.
Wear face protection.
Wear protective gloves.
Wear protective gloves/eye protection/face protection
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store ...
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal	Dispose of contents/container to ...
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	
Inhalation	Based on the presence of n-butyl glycidyl ether, product is presumed to cause irritation to the nose, throat and respiratory tract. Based on the presence of n-butyl glycidyl ether, product may produce CNS depression, as evidenced by headaches, tremor (shaking of the hands or other body parts), drowsiness, convulsions, hypnosis, or anesthesia (can't feel anything).
Eye	Severely irritating to the eyes.
Skin Contact	Based on product testing, product is mildly irritation to the skin. Prolonged or repeated liquid contact can result in defatting and drying the skin which may result in skin irritation and dermatitis. Based on product testing, product may cause skin sensitization, (a rash or discoloration of the skin that becomes more pronounced with additional exposure, and can become a serious medical problem that can require the removal of the sensitive individual from the environment of the sensitizing agent).
Ingestion	Based on product testing, product is slightly toxic. Based on the presence of n-butyl glycidyl ether, product may produce CNS depression, such as is evidence by headaches, tremor (shaking of the hands or other body parts), drowsiness, convulsions, hypnosis, or anesthesia (can't fell anything).
Potential Health Effects	----- Health Effects or Risks from Exposure. Acute: See section 5. Chronic: Dermatitis and sensitization as evidenced by rash, itching, and even open lesions and sores. -----

Section 3. Ingredients

CAS	Ingredient Name	Weight %
2426-08-6	Oxirane, (butoxymethyl)-	5-10 %
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	40-50 %
37244-96-5	Nephenline Syenite	40-50 %

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

Section 4. First-Aid Measures

Eye Contact	Severe irritant to the eyes. Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. Obtain medical attention IMMEDIATELY.
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Skin Contact	Remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse. Contaminated leather articles can not be decontaminated and should be destroyed.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.
Notes To Physician	If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as a loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.
Aggravated Medical Condition	Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product. Preexisting skin or respiratory tract allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	CAUTION! COMBUSTIBLE. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water. No unusual hazard. Handle as combustible liquid. Containers exposed to intense heat from fire should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container area exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

Major Spills	For Major Spills, call CHEMTREC at 1-800-424-9300
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Section 7. Handling and Storage

Spill and Leak Procedures	Spill response procedures: Caution. Combustible. – Large spills – Eliminate potential sources of ignition. Wear appropriate respirator and other protective clothing. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material; place in non-leaking containers and seal tightly for proper disposal. Flush area with water to remove trace residue; dispose of flush solution as above. – Small spills – Take up with an absorbent material and place in non-leaking containers
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	for proper disposal.
Disposal	Preparing wastes for disposal: Solidify with clay or other absorbent in a steel drum. Consult your local authorities for an appropriate disposal facility.
	Note: Dispose of all waste in accordance with federal, state and local regulations.
Storage Requirements	Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.
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
	Oxirane, (butoxymethyl)-	Time Weighted Average (TWA) OSHA Z1, PEL 50 ppm, 270 mg/m3, OSHA Z1A, PEL 25 ppm, 135 mg/m3	N/A	N/A
	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	N/A	none	N/A
	Nephenline Syenite	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Apron, Face Shield, Respirator, CHEMICAL GOGGLES, PROTECTIVE CLOTHING			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Very light yellow
Odor	N/A
Odor Threshold	N/A
Solubility	Negligible
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A

Specific Gravity	1.13
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	164°F
FP Method	setaflash
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	mmHg at 20°C
Vapor Density	4.5

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.
Materials to Avoid	Strong oxidizing agents, strong lewis or mineral acids.
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

Acute Toxicity Data by Route of Exposure	None Listed
Subchronic Toxicity	None Listed
Additional Toxicity	None Listed

Section 12. Ecological Information

Not Available

Section 13. Disposal

WASTE DISPOSAL METHOD:	Dispose of in accord with local, state and federal regulations
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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

Additional Information California Prop. 65: : WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer., WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None required. United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed

Section 16. Other Information

Revision Date 6/10/2018

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

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

For Information Purposes Only - No Longer Regulated

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