



Safety Data Sheet

RF 955 Part A

Section 1. Identification

Product Identifier RF 955 Part A
Synonyms Epoxy Resin
Manufacturer Stock Numbers 30356A

Recommended use 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
(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 5
ACUTE TOXICITY - ORAL - Category 5
SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3)

Signal Word Warning
Pictogram



Hazard Statements Causes eye irritation

May be harmful if swallowed
 May be harmful in contact with skin
 May cause respiratory irritation; or May cause drowsiness or dizziness

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.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.

Prevention Avoid breathing dust/fume/gas/mist/ vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Wash ...thoroughly after handling.
 Wear eye protection/face protection.

Storage Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.

Disposal Dispose of contents/container to ...

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Note Note: Filler particles are thoroughly wetted by vehicle so airborne exposure does not occur unless cured material is subsequently ground, machined or sanded.

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).

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	43.5 %
7631-86-9	Fumed Silica	50 %
2426-08-6	N-butyl Glycidyl Ether	6.7 %

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

Section 4. First-Aid Measures

Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Skin Contact	SEVERE Irritation: May be toxic if absorbed through skin. Immediately remove contaminated clothing. Wipe excess from skin and flush with plenty of water for 15 minutes. 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. If breathing is difficult, give oxygen. Get 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.
Skin	Pre-existing skin allergies may increase the chance of developing increased allergy symptoms from exposure to this product. Pre-existing skin and eye disorders may be aggravated by exposure to this product.
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.

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

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 for proper disposal.
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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

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
	Fumed Silica	N/A	10 mg/m ³ , TLV-TWA, Inhalation	N/A
	N-butyl Glycidyl Ether	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Apron, Face Shield			

Section 9. Physical and Chemical Properties

Physical State	Paste
Color	Gray
Odor	Low odor
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N/A
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	N/A
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.
Materials to Avoid	Strong oxidizing agents, strong lewis or mineral acids.
Hazardous Decomposition Products	Carbon monoxide, aldehydes, acids and other organic substances may be formed during the combustion or thermal or oxidative decomposition. Reaction with some curing agents may produce considerable heat (exothermic). Run-A-Way cure reactions may char and decompose the resin system, generating unidentified fumes and vapors which may be toxic.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Eye Contact	Severely irritating
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Section 12. Ecological Information

No Data Available

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

Section 15. Regulatory Information

State Regulatory Information (By Component) 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.

Component : Ephichorohydrin
CAS # : 106898
Wt : <2 ppm

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.

Section 16. Other Information

Revision Date

5/8/2015

Disclaimer

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

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. E.V. Roberts does not undertake to furnish advice on such matters.



Safety Data Sheet

RF 955 Part B

Section 1. Identification

Product Identifier	RF 955 Part B		
Synonyms	Epoxy Resin		
Manufacturer Stock Numbers	30356B		
Recommended use	Epoxy Resin		
Uses advised against	Avoid strong acids, strong bases, strong oxidizers, amines, mercaptans		
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 4 EYE DAMAGE/IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3)
Signal Word	Warning
Pictogram	The pictogram section contains two red diamond-shaped hazard symbols. The first diamond shows a hand being poured on by a test tube, representing skin irritation. The second diamond shows a hand with a drop of liquid on it, representing eye irritation. To the right of these is a third red diamond containing a black exclamation mark, representing a general warning.
Hazard Statements	Causes gastrointestinal irritation Causes serious eye irritation

	Harmful in contact with skin May cause respiratory irritation
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. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of water/ ... Specific treatment (see ... on this label) Take off immediately all contaminated clothing and wash it before reuse.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Use only outdoors or in a well-ventilated area. Wash ...thoroughly after handling. Wear eye protection/face protection. Wear protective Butyl Gloves, Face Shield, Eye Bath and Safety Shower.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to ...
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	
Inhalation	Causes respiratory tract irritation.
Eye contact	Causes eye burns. May cause blindness. Severe eye irritation.
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	DANGER! Do not take internally. May cause gastrointestinal irritation or ulceration. May cause burns of mouth and throat.
Mutagenicity	No known significant effects or critical hazards
Carcinogenicity	This product and its components are not listed by NTP, IARC or regulated as a carcinogen by OSHA.
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 %
112-24-3	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	6-16 %
68410-23-1	Polyamide Resin	84-94 %

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	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. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion	Do not induce vomiting. The victim should drink several glasses of water to dilute the ingested substance. If vomiting occurs naturally, keep airway clear. Get medical attention. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Flash Point: >365 Degrees F ASTM D 92-97; QP1363.2; Flash and Fire Points by Cleveland Open Extinguishing media: Use alcohol-resistant foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material. Special Fire Fighting Procedures: 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. Emits toxic fumes under fire conditions. Combustion can produce toxic fumes. Incompatible with strong oxidizing agents
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

Major Spills Spills, Leaks or Releases	For Major Spills, call CHEMTREC at 1-800-424-9300 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. Prevent further leakage, spillage or entry into drains. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Small spills: Neutralize small spills with decontaminant. Remove and dispose of residues. Notify applicable government authorities if release is reportable.
Preparation of Decontamination Solution	Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's material safety data sheets when preparing and using solution.
Additional Information	

Section 7. Handling and Storage

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	Laundry 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
	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	N/A	1 ppm, skin, TWA 6 mg/m ³ , inhalation	N/A
	Polyamide Resin	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Apron, Face Shield, Respirator, PROTECTIVE CLOTHING			

Section 9. Physical and Chemical Properties

Physical State	Paste
Color	White
Odor	Mild ammoniacal
Odor Threshold	N/A
Solubility	Moderate
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.97
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	> 365°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	N/A
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	Exposure to temperatures of around 300°C and above. Avoid bringing into contact with strong oxidizing materials or epoxy resins under uncontrolled conditions.
Materials to Avoid	Strong acids and strong oxidizers
Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, nitrogen oxides and ammonia.
Hazardous Reactions	Will not occur
Conditions to Avoid	None listed

Section 11. Toxicological Information

Animal Testing	Test type ; Result ; Species ; Hazard Description Oral Tox ; >16 ML/KG LD50 ; Rat ; Relatively Harmless Dermal Tox ; 6.5 ML/KG LD50 ; Rabbit ; Relatively Harmless Skin Irr. ; 1.2 0-8 Range ; Rabbit ; Slight Eye Irr. ; 105 0-110 Range ; Rabbit ; Severe
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Section 12. Ecological Information

Ecological Information No data available.

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

Section 15. Regulatory Information

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Revision Date 5/8/2015

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