



# Safety Data Sheet

## RF 2610 Mod 1 Part A

### Section 1. Identification

Product Identifier      RF 2610 Mod 1 Part A  
Synonyms                N/A  
Manufacturer Stock  
Numbers                N/A

Recommended use      Epoxy Resin  
Uses advised against   N/A

#### Manufacturer Contact

Address                EV Roberts  
18027 Bishop Avenue  
Carson, CA, 90746  
USA

Phone  
(800) 374-3872

Emergency Phone  
(800) 424-9300  
CHEMTREC

Fax  
(310) 202-7247

Email  
sales@evroberts.com

Website  
<http://www.evroberts.com>

### Section 2. Hazards Identification

Classification            SENSITIZATION - SKIN - Category 2A  
SKIN CORROSION/IRRITATION - Category 3  
SKIN CORROSION/IRRITATION - Category N/A

Signal Word              Warning

Pictogram



Hazard Statements

Causes mild skin irritation  
Causes Skin Irritation. May Cause Allergic Reactions.

Precautionary Statements

Response

If skin irritation occurs: Get medical advice/attention.

Prevention

Do not eat, drink or smoke when using this product.  
In case of inadequate ventilation wear respiratory protection.  
Wash ...thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

N/A

Disposal

N/A

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
	Modified epoxy resin	5% - 10%
60676-86-0	Silica, vitreous	30% - 60%
	Polyfunctional epoxy resin	30% - 60%
25068-38-6	bisphenol-A-(epichlorhydrin) epoxy resin	10% - 30%
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	1% - 5%

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

### Section 4. First-Aid Measures

First Aid

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

## Section 5. Fire Fighting Measures

### Suitable Extinguishing Media

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

### Unsuitable Extinguishing Media

N/A

## Section 6. Accidental Release Measures

### Small Spills

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Clean-up

Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

## Section 7. Handling and Storage

### Handling and Storage

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Wash with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. If symptoms develop and persist, get medical attention.

Symptoms: See Section 11

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Modified epoxy resin	N/A	N/A	N/A
	Silica, vitreous	N/A	N/A	N/A
	Polyfunctional epoxy resin	N/A	N/A	N/A
	bisphenol-A-(epichlorhydrin) epoxy resin	N/A	N/A	N/A
	Siloxanes and Silicones, di-Me, reaction products with silica	N/A	N/A	N/A

Personal Protective Equipment

Personal Protection

Goggles, Gloves

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

## Section 9. Physical and Chemical Properties

Physical State	Solid
Color	Blue
Odor	Slight
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1.25
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 recommended storage conditions
Materials to Avoid	Strong acids, strong bases, strong oxidizers, amines, mercaptans

## Section 11. Toxicological Information

Hazardous Components	Epoxy resin: ACGIH TLV : None OSHA PEL : None AIHA WEEL : None
	Polyfunctional Epoxy resin: ACGIH TLV : None OSHA PEL : None AIHA WEEL : None
	Synthetic rubber: ACGIH TLV : None OSHA PEL : None AIHA WEEL : None
	Glass, oxide, chemicals: ACGIH TLV : 10 mg/m3 TWA Inhalable dust., 3 mg/m3 TWA Respirable fraction. OSHA PEL : 15 mg/m3 TWA Total dust., 5 mg/m3 TWA Respirable fraction. AIHA WEEL : None
	Treated fumed silica: ACGIH TLV : 10 mg/m3 TWA Inhalable dust., 3 mg/m3 TWA Respirable fraction. OSHA PEL : 15 mg/m3 TWA Total dust., 5 mg/m3 TWA Respirable fraction AIHA WEEL : None
	Substituted silane : ACGIH TLV : None OSHA PEL : None AIHA WEEL : None

## Section 12. Ecological Information

Ecological Information	Ecological information: Toxic to aquatic organisms
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## Section 13. Disposal

Disposal	Information provided is for unused product only.  Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.
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Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## Section 14. Transport Information

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

International Air Transportation (ICAO/IATA) Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Tetraglycidyl diaminodiphenylmethane, Bisphenol-A Epichlorhydrin resin) Hazard class or division: 9 Identification number: UN 3077 Packing group: III

Water Transportation (IMO/IMDG) Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tetraglycidyl diaminodiphenylmethane, Bisphenol-A Epichlorhydrin resin) Hazard class or division: 9 Identification number: UN 3077 Packing group: III Marine pollutant: Tetraglycidyl diaminodiphenylmethane, Bisphenol-A Epichlorhydrin resin

## Section 15. Regulatory Information

Additional Information United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act inventory. TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health  
CERCLA/SARA Section 313: None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

## Section 16. Other Information

Revision Date

3/19/2018

## 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 2610 Mod 1 Part B

### Section 1. Identification

Product Identifier      RF 2610 Mod 1 Part B  
Synonyms                N/A  
Manufacturer Stock  
Numbers                N/A

Recommended use      Hardner  
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  
EYE DAMAGE/IRRITATION - Category 1  
SENSITIZATION - SKIN - Category 1  
SKIN CORROSION/IRRITATION - Category 1B  
Signal Word              Danger



Pictogram



Hazard Statements

Causes serious eye damage  
Causes severe skin burns and eye damage  
Harmful in contact with skin  
May cause an allergic skin reaction

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.  
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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If on skin: Wash with plenty of water/ ...  
If skin irritation or rash occurs: Get medical advice/attention.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
Immediately call a poison center/doctor/ ...  
Specific treatment (see ... on this label)  
Take off immediately all contaminated clothing and wash it before reuse.  
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.  
Wash ...thoroughly after handling.  
Wear eye protection/face protection.  
Wear protective Butyl Gloves, Face Shield, Eye Bath and Safety Shower.  
Wear protective gloves.  
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container to ...

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
112945-52-5	Silica Fumes	5% - 10%
112-57-2	1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-	30% - 60%
	Substituted piperazine	30% - 60%

112-24-3	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	1% - 5%
1333-86-4	Carbon black	0.1% - 1%

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

## Section 4. First-Aid Measures

### First Aid

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

## Section 5. Fire Fighting Measures

### Suitable Extinguishing Media

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

### Unsuitable Extinguishing Media

N/A

## Section 6. Accidental Release Measures

### Section References

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7. Handling and Storage

### Handling

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For

industrial use only.

Storage: For safe storage, store at or below 25 °C (77°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Silica Fumes	N/A	N/A	N/A
	1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-	N/A	N/A	N/A
	Substituted piperazine	N/A	N/A	N/A
	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	N/A	1 ppm, skin, TWA 6 mg/m3, inhalation	N/A
	Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	N/A

Personal Protective Equipment

Goggles, Gloves

Personal Protection

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

## Section 9. Physical and Chemical Properties

Physical State	Solid
Color	Black
Odor	Ammoniacal
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

### STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Reactivity: Not available.

Conditions to avoid: Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

## Section 11. Toxicological Information

### Additional Information

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Respiratory tract burns. Skin contact: This product is severely irritating to the skin and may cause burns. This product may cause an allergic skin reaction. This product may be harmful if it is absorbed through the skin. Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. Ingestion: May cause burns of mouth and throat if swallowed.

## Section 12. Ecological Information

Not Available

## Section 13. Disposal

**Disposal** Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## Section 14. Transport Information

**UN Number** 3259

**UN Proper Shipping Name** Amines, solid, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine)

**DOT Classification** 8

**Packing Group** III

**Additional Information** International Air Transportation (ICAO/IATA) Proper shipping name: Amines, solid, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine) Hazard class or division: 8 Identification number: UN 3259 Packing group: III

Water Transportation (IMO/IMDG) Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted piperazine) Hazard class or division: 8 Identification number: UN 3259 Packing group: III Marine pollutant: Tetraethylene pentamine

## Section 15. Regulatory Information

**Additional Information** United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health  
CERCLA/SARA Section 313: None above reporting de minimis

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

## **Section 16. Other Information**

Revision Date

3/19/2018

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