



# Safety Data Sheet

## RF 13 Curing Agent

### Section 1. Identification

Product Identifier      RF 13 Curing Agent  
Synonyms                N/A  
Manufacturer Stock  
Numbers                N/A

Recommended use      N/A  
Uses advised against    N/A

#### 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 - INHALATION - Category 2  
                                  ACUTE TOXICITY - ORAL - Category 4  
                                  SENSITIZATION - SKIN - Category 1  
                                  SKIN CORROSION/IRRITATION - Category 1C  
                                  SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word                Danger

Pictogram



Hazard Statements

Causes severe skin burns and eye damage  
Fatal if inhaled  
Harmful if swallowed  
May cause an allergic skin reaction  
May cause respiratory irritation; or May cause drowsiness or dizziness

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: Call a poison center/doctor/ ... / if you feel unwell.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
Immediately call a poison center/doctor/ ...  
Rinse mouth.  
Specific treatment (see ... on this label)  
Specific treatment is urgent (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.  
In case of inadequate ventilation wear respiratory protection.  
Use only outdoors or in a well-ventilated area.  
Wash ...thoroughly after handling.  
Wear protective gloves.  
Wear protective gloves/protective clothing/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

No Data Available

**Section 3. Ingredients**

CAS	Ingredient Name	Weight %
111-40-0	1,2-Ethanediamine, N-(2-aminoethyl)-	100% - 100%

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

### Clean-up

Clean up spills immediately, observing precautions in Protective Equipment section.

### Containment

Contain by diking with sand, earth or other non-combustible material. If spilled in an enclosed area, ventilate. Do not flush product into public sewer, water system or surface waters.

## 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
	1,2-Ethanediamine, N-(2-aminoethyl)-	1 ppm, 4mg/m <sup>3</sup>  Time Weighted Average (TWA)	N/A	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	Liquid
Color	Colorless
Odor	N/A
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

### Materials to Avoid

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.  
Nitrous acid and other nitrosating agents  
Oxidizing agents

## Section 11. Toxicological Information

### Skin Contact

Moderate irritant. Repeated and/or prolonged contact may cause skin sensitization.

### Ingestion

Ingestion may cause irritation of the gastrointestinal tract. This product is considered to have a low order of acute oral toxicity.

### Skin Contact

If irritation, redness, or a burning sensation develops and persists, obtain medical advice.

## Section 12. Ecological Information

Not Available

## Section 13. Disposal

No Data Available

## Section 14. Transport Information

UN Number 2079  
UN Proper Shipping Name Diethylenetriamine  
DOT Classification 8  
Packing Group II

Transport Information

DOT (US):  
UN Number: UN 2079  
Class: 8  
Packing Group: II  
Proper Shipping Name: Diethylenetriamine  
Label: Corrosive

IMDG:  
UN Number: UN 2079  
Class: 8  
Packing Group: II  
Proper Shipping Name: Diethylenetriamine  
Label: Corrosive

TDG:  
UN Number: UN 2079  
Class: 8  
Packing Group: II  
Proper Shipping Name: Diethylenetriamine  
Label: Corrosive

IATA:  
UN Number: UN 2079  
Class: 8  
Packing Group: II  
Proper Shipping Name: Diethylenetriamine  
Label: Corrosive

**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.

Sara 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 16. Other Information**

Revision Date

6/26/2018

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