



Safety Data Sheet

RF 61

Section 1. Identification

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|----------------------------|---|----------------------------|----------------|
| Product Identifier | RF 61 | | |
| Synonyms | Epoxy Curing Agent | | |
| Manufacturer Stock Numbers | 10137 | | |
| Recommended use | Epoxy Curing Agent | | |
| Uses advised against | Avoid high temperatures. Avoid flames. 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

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|----------------|---|
| Classification | ACUTE TOXICITY - INHALATION - Category 5 ACUTE TOXICITY - ORAL - Category 4 EYE DAMAGE/IRRITATION - Category 2B SKIN CORROSION/IRRITATION - Category 2 |
| Signal Word | Warning |

Pictogram



Hazard Statements

Harmful if swallowed
May be harmful if inhaled
Moderately irritating to eyes
Moderately irritating to skin

Precautionary Statements

Response

IF INHALED: Call a POISON CENTER or doctor/... if you feel unwell
If swallowed: Call a poison center/doctor/ ... / if you feel unwell.
Rinse mouth.

Prevention

Do not eat, drink or smoke when using this product.
Wash ...thoroughly after handling.

Storage

N/A

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 % |
|------------|-----------------|----------|
| 68410-23-1 | Polyamide Resin | 100 % |

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

Section 4. First-Aid Measures

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| TARGET ORGANS | Skin, Eyes and Respiratory System |
| General | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| Inhalation | Irritant: Remove patient from exposure, keep warm and at rest. Vapors may be mildly to severely irritating to respiratory tract. Repeated exposure can cause irritation. May cause Central Nervous System (CNS). Depression: Obtain medical attention IMMEDIATELY. Treatment is Symptomatic for primary irritation or bronchospasm. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or show signs of failing. |
| Skin Contact | Skin Irritant: LD50: 6.5 ml/kg, species, Rabbit May cause skin irritation and sensitization. Wash affected areas thoroughly with soap and water. Obtain medical attention IMMEDIATELY. Contaminated clothing should be thoroughly cleaned before reuse. Cannot decontaminate leather articles. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. |
| Eye Contact | Eye Irritant: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. Obtain medical attention IMMEDIATELY. |
| Ingestion | Severe Irritant: LD50: 16 ml/kg, species, RAT Do NOT Induce Vomiting. May cause gastrointestinal irritation or ulceration. May cause irritation and burn to mouth throat, and stomach. May be moderately toxic if swallowed. May cause CNS depression. Give large amounts of water followed by milk if available. Obtain medical attention IMMEDIATELY. |
| Signs and Symptoms | Irritation as noted above. Lung damage (scarring, bronchitis, emphysema) may be evidenced by shortness of breath, especially on exertion, and may be accompanied by evidenced by rashes, especially hives and may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness, respiratory depression and death may occur. |

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Containers may burst under intense heat.

Extinguishing Media:

Carbon dioxide, dry chemical or appropriate foam. If water is used, very large quantities are required. Reaction between epoxies and this curing agent may be vigorous. Contain runoff water with temporary barriers.

Fire Fighting Protective Equipment:

Use self-contained breathing apparatus and full protective clothing (Bunker Gear).

Flash Point:

>365°F (>185°C)

Flammable Limits (Lower):

Not determined.

Flammable Limits (Upper):

Not determined.

Rate of Burning:

Not determined.

Explosive Power:

None.

Sensitivity to Mechanical Impact:

None.

Sensitivity to Static Discharge:

None.

Decomposition Products:

CO, CO₂, NO_x and some HCN.

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. Notify applicable government authorities if release is reportable.

Section 7. Handling and Storage

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| Handling | Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the defined occupational exposure limit is not exceeded. The efficiency of the ventilation must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. When the product is sprayed or heated, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. |
| Storage Requirements | Keep containers properly sealed and stored indoors, in a cool, dry, well ventilated area. DO NOT STORE NEAR ACIDS. Do not store in reactive containers. Keep contents away from open flames and high temperatures. Do not pressurize drum containers to empty them. Heating this curing agent in the presence of air may cause thermal and oxidative decomposition. With some epoxy resins, it may produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. DO NOT BREATHE FUMES. Use a NIOSH-approved respirator as required to prevent over exposure. In accordance with 29 CFR 1910-134. Use a full face, atmosphere-supplying respirator or an air purifying respirator for organic vapors. |
| CAUTION | SEVERE EYE IRRITANT , skin and respiratory tract. May cause skin sensitization. May cause CNS depression. Do not get into eyes, on skin or on clothing. Do not breathe vapors or mists. |
| Storage Temperature | Ideal storage temperature is 16-38°C (60-100°F) Store closed in cool dry, and well ventilated place. |
| Shelf Life | 12 Months @ 77°F (25°C) |

Section 8. Exposure Controls/Personal Protection

| Occupational Exposure Limits | Ingredient Name | ACGIH TLV | OSHA PEL | STEL |
|---|---|-----------|----------|------|
| | Polyamide Resin | N/A | N/A | N/A |
| <p>Personal Protective Equipment</p> <p>Preventive Measures</p> | <p>Goggles, Gloves, Apron, Face Shield, Respirator, CHEMICAL GOGGLES, PROTECTIVE CLOTHING</p> <p>Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.</p> | | | |
| Engineering Controls | <p>Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. Follow guidelines in the ACGIH publication "Industrial Ventilation".</p> | | | |
| <p>Eye Protection</p> <p>Skin Protection</p> | <p>Chemical safety goggles. Use a full-face shield.</p> <p>The following protective materials are recommended. Gloves - neoprene, nitrile-butadiene rubber, butyl rubber. Thin disposable gloves should be avoided for repeated or long term use. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.</p> | | | |
| Respiratory Protection | <p>Use a NIOSH/MSHA approved positive pressure air-supplied respirator equipped with a full facepiece, or an air-supplied hood, if airborne concentrations exceed or are expected to exceed the TLV.</p> | | | |
| Exposure Guidelines | <p>Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with this product. Once a person is diagnosed as sensitized, no further exposure to any sensitizer should be permitted.</p> | | | |

Section 9. Physical and Chemical Properties

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|---------------------------------------|--------------------------|
| Physical State | Liquid |
| Color | Viscous Amber |
| Odor | Amoniacal |
| Odor Threshold | N/A |
| Solubility | Moderate - (1 to 10%) |
| Partition coefficient Water/n-octanol | N/A |
| VOC% | N/A |
| Viscosity | 300 - 600 mPa's |
| Specific Gravity | 0.97 |
| Density lbs/Gal | 0.97 |
| Pounds per Cubic Foot | N/A |
| Flash Point | >365°F (>185°C) |
| FP Method | ASTM D92 |
| Ph | 0 |
| Melting Point | <0°C |
| Boiling Point | N/A |
| Boiling Range | >200°C |
| LEL | N/A |
| UEL | N/A |
| Evaporation Rate | N/A |
| Flammability | N/A |
| Decomposition Temperature | N/A |
| Auto-ignition Temperature | 335°C |
| Vapor Pressure | <1 pa |
| Vapor Density | N/A |

Percent Volatiles (by wt.) 0 @ 70°F (21°C)

Section 10. Stability and Reactivity

Hazardous Decomposition Products Highly unlikely under normal industrial use. See section 5.

Chemical Stability Stable at room temperature

Conditions to Avoid Avoid high temperatures. Avoid flames and contact with strong oxidizing agents.

Hazardous Polymerization Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed during combustion.

Section 11. Toxicological Information

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| Acute Toxicity Data | Oral LD50 : >5,000 mg/kg |
| | Dermal LD50 : > 5,000 mg/kg |
| | Irritation / Corrosion |
| | Skin Species: rabbit Result: Slightly irritating |
| | Eye Species: rabbit Result: Severely irritating |
| | Sensitization Result: sensitizing |
| | Aspiration hazard No aspiration hazard expected |

Section 12. Ecological Information

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| Toxicity to fish Components | Fish Acute LC50: > 1 - 10 mg/l Microorganisms Toxicity to Microorganisms: EC0: > 10 - 100 mg/l Bioaccumulation |
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Section 13. Disposal

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| Disclaimer Part 1 | The generation of waste should be avoided or minimized wherever possible. 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 2 | |
| Disclaimer Part 3 | Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed. |

Section 14. Transport Information

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| UN Number | 3082 |
| UN Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s (dimer fatty acid(C18) poly amine resin) |
| DOT Classification | 9 |
| Packing Group | III |
| Danger Labels | 9 |
| Marine Pollutant | None |
| ERG/EMS | 171 |
| RQ | None |

Section 15. Regulatory Information

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|--------------------------------|---|
| Federal Regulations | |
| Registration status | Chemical DSL, CA released / listed |
| WHMIS Hazard Classification | DB2: Toxic Material Causing Other Toxic Effects - Toxic material |
| CPR | THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. |

Section 16. Other Information

Revision Date

4/24/2015

HMIS Rating (Not Regulated) The HMIS Rating for this product is:
Health: 3 Flammability: 1 Reactivity: 0

The NFPA Rating for this product is:
Health: 3 Flammability: 1 Reactivity: 0 Other: None

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

Disclaimer

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