



Safety Data Sheet

RF 1731 Clear kit Part A

Section 1. Identification

Product Identifier	RF 1731 Clear kit Part A		
Synonyms	Polyurethane resin		
Manufacturer Stock Numbers	27046		
Recommended use	Polyurethane 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	ACUTE TOXICITY - INHALATION - Category 4 ACUTE TOXICITY - ORAL - Category 4 EYE DAMAGE/IRRITATION - Category 2A SKIN CORROSION/IRRITATION - Category 2
Signal Word	Warning
Pictogram	

Hazard Statements	Causes serious eye irritation Harmful if inhaled Harmful if swallowed Moderately irritating to skin
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 swallowed: Call a poison center/doctor/ ... / if you feel unwell. Rinse mouth.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash ...thoroughly after handling. Wear eye protection/face protection.
Storage	N/A
Disposal	Dispose of contents/container to ...
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	
Over-exposure signs/symptoms	
Inhalation	Inhalation can cause mucous membrane irritation, chest tightness, coughing, headache, shortness of breath.
Skin or eyes	Skin or eye contact can cause severe irritation, sensitization, and allergic reactions.
Skin contact	Absorbed through skin: Not known
Ingestion	Possible mucous damage, circulatory shock, respiratory depression and convulsions.
Potential Health Effects	----- Health Effects or Risks from Exposure. Acute: See above Chronic: None known.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
101-68-8	Benzene, 1,1'-methylenebis[4-isocyanato-	22 %
Proprietary	*** Higher molecular weight polymers of similar structure	78 %

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

Section 4. First-Aid Measures

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 Contact	Immediately remove contaminated clothing or shoes. Wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed. If irritation occurs, get medical attention.
Inhalation	Remove person to fresh air and provide oxygen if breathing is difficult. If signs/symptoms develop, get medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	370°F (TOC) Auto Ignition Temperature: Not Available Flammable Limits (Lower): Not Available Flammable Limits (Upper): Not Available Extinguishing media: Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing. Unusual Fire/Explosion Hazards: Toxic fumes may be given off when material is exposed to fire.
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

Spill Response Procedures	May burn although not readily ignitable. Use cautious judgment when cleaning up large spills. 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. Shut off source of leak if safe to do so. Prevent further leakage, spillage or entry into drains. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbant such as clay, sand or other suitable material; dispose of properly. Flush area with water to remove trace residue. Small Spills - Take up with an absorbent material and dispose of properly. Preparing wastes for disposal: Solidify with clay or other absorbent in a steel drum, Consult your local authorities for an appropriate disposal facility.
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Section 7. Handling and Storage

Ventilation and Engineering controls	Store material in a cool dry place with adequate ventilation.
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
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
	Benzene, 1,1'-methylenebis[4-isocyanato-	0.005 PPM TWA/0.02 PPM (CEILING)	0.02 PPM	N/A
	*** Higher molecular weight polymers of similar structure	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, PROTECTIVE CLOTHING, SAFETY GLASSES			
Chronic Health Hazard, General	This product's ingredients are NOT found in the lists below: OSHA NTP IARC			
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.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	amber
Odor	aromatic odor
Odor Threshold	N/A
Solubility	Partially miscible
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	Medium
Specific Gravity	9.7
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	370°F
FP Method	TOC
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	(mmHg at 68° F) <1X10-5
Vapor Density	Heavier than air

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.
Incompatibilities	Strong oxidizing agents, strong lewis or mineral acids.
Hazardous Decomposition Products	Carbon monoxide, nitrogen compounds, camphene, ammonia
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Toxicological Test Data	Oral LD50; rat; >5,000 mg/kg Dermal LD50; rabbit; >2,000 mg/kg Inhalation LC50; rat; >0.04 mg/L/1-hr (maximum vapor concentration)
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Section 12. Ecological Information

Ecotoxicological Information None Listed
CHEMICAL FATE No data available.

Section 13. Disposal

Disposal

Spill response procedures: May burn although not readily ignitable. Use cautious judgment when cleaning up large spills. Large Spills - Wear respirator and protective clothing as appropriate. Shut off source of leak 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; dispose of properly. Flush area with water to remove trace residue. Small Spills - Take up with an absorbent material and dispose of properly.

Preparing wastes for disposal: Solidify with clay or other absorbent in a steel drum. Consult your local authorities for an appropriate disposal facility.

Section 14. Transport Information

UN Number N/A
UN Proper Shipping Name N/A
DOT Classification N/A
Packing Group N/A
All Regulatory Classification This product is not regulated by CFR, TDG, IMO, IMDG

Section 15. Regulatory Information

SARA 311/312 Hazard Categories	Chronic Health Hazard - Yes Acute Health Hazard - Yes Fire Hazard - No Sudden Pressure - No Reactivity Hazard - No
SARA 302 Extremely Hazardous Substances	None
CERCLA Hazardous Chemicals	4,4'-Methylene diphenyl diisocyanate (MDI) CAS: 101-68-8 Weight: 18% RQ: 5000
SARA 313 Toxic Chemicals	4,4'-Methylene diphenyl diisocyanate (MDI) CAS: 108-88-3 Weight: 18%
New Jersey Right to Know Components	None
California Prop. 65 Components	None
WHMIS Hazard Classification	This product meets hazard class criteria D1A, D2A and D2B.
TSCA 12(b) Components	All chemical components of this product are in compliance with TSCA inventory requirements.
DSL Status Regulatory	All components of this product are on the Canadian DSL list. This product contains 18% 4,4'-Methylene diphenyl diisocyanate, a toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Section 16. Other Information

Revision Date	10/1/2015
HMIS Rating (Not Regulated)	The HMIS Rating for this product is: Health: 3 Flammability: 1 Reactivity: 1 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe
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