

MATERIAL SAFETY DATA SHEET

Trade Name: **Raven 155 - Part A**

SECTION I: COMPANY INFORMATION

Company: RLS
13105 East 61st Street South, Suite A
Broken Arrow, OK 74012

Emergency Telephone #: 800-424-9300
Chemtec

Revision Date: 10/10/07

Information Telephone #: 918-615-0020
800-324-2810

SECTION II: INGREDIENT INFORMATION

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>PEL</u>	<u>TLV</u>
Epoxy Resin	25085-99-8	100%	N/E	N/E

N/E indicates "not established"

SARA Title III, Section 313 ingredients: None

All ingredients are TSCA inventory listed.

SECTION III: PHYSICAL DATA

Boiling Point: > 200 deg F

Vapor Pressure: Not determined

Vapor Density: Not determined

Solubility in Water: Negligible

Appearance and Odor: Pale yellow liquid with heavy paint consistency – mild epoxy odor

Specific Gravity: 1.2

Melting Point: Not determined

Evaporation Rate: Not determined

% Volatile by Volume: <1%

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Flash Point: >200 deg F, TCC Method

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for firefighters. Water may be helpful in keeping adjacent containers cool. Avoid spreading burning liquids with water used for cooling purposes.

Unusual Fire and Explosion Hazards: Keep work areas free of hot metal surfaces and other source of ignition.

NFPA classification: Health: 2 Flammability: 1 Reactivity: 0

OSHA/NFPA Fire Hazard Classification: Class III B

LFL: Not determined **UFL:** Not determined

SECTION V: REACTIVITY DATA

Stability: Stable, will react with amines.

Incompatibility: Strong acids and bases, selected amines and oxidizing agents.

Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, acids, aldehydes and other unidentified toxic and/or irritating compounds.

Hazardous Polymerization: Will not occur.

SECTION VI: HEALTH HAZARD DATA

Primary Routes of Entry:

EYES: May cause slight transient (temporary) eye irritation. Product may be irritating to the eyes.

SKIN: May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INHALATION: Vapors are unlikely due to physical properties.

INGESTION: Single dose oral toxicity is low. No hazards anticipated from ingestion incidental to industrial exposure.

SYSTEMIC and OTHER EFFECTS: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

Carcinogenicity: Contains no ingredient listed as a potential carcinogen or as a carcinogen per OSHA, ACGIH, NTP or IARC at concentrations equal to or greater than 0.1%.

Emergency and First Aid Procedures:

EYES: Flush with large quantities of water for at least 15 minutes. Consult a physician.

SKIN: Wash thoroughly with soap and flowing water. Remove and wash contaminated clothing before reuse.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Keep sources of ignition and hot metal surfaces isolated from the spill. Material may flow slowly. Scrape into containers for disposal.

Waste Disposal Methods: Dispose of according to all local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Keep containers closed when not in use. Avoid prolonged or repeated contact with skin. DO NOT handle or store near flame, heat or strong oxidants. Do not store in direct sunlight. Avoid prolonged storage above 38 deg C (100 deg F).

SECTION VIII: CONTROL MEASURES

RESPIRATORY: Respiratory protection should not be needed. If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with organic vapor cartridges. In addition, spray application may require the use of paint pre-filters. If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

VENTILATION: General mechanical ventilation is sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

EYES: Use chemical safety glasses, splash-proof eye goggles or goggles with full faceshield.

CLOTHING/GLOVES: Use nitrile or other impermeable chemical resistant gloves to prevent skin irritation. If potential for skin contact is present, wear impervious, long-sleeved, body covering clothing and rubber boots.

OTHER PROTECTIVE EQUIPMENT: The availability of eye washes and safety showers in work areas is recommended.

SECTION IX: TRANSPORT DATA

Proper Shipping Name: Not regulated

Hazard Class: Not regulated by D.O.T. regulations

Identification Number: None

Packing Group: None

SECTION X: DISCLAIMER

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MATERIAL SAFETY DATA SHEET

Trade Name: **Raven 155 - Part B**

SECTION I: COMPANY IDENTIFICATION

Company: RLS
13105 East 61st Street South, Suite A
Broken Arrow, OK 74012

Emergency Telephone #: 800-424-9300
Chemtec

Revision Date: 10/10/07

Information Telephone #: 918-615-0020
800-324-2810

SECTION II: INGREDIENT INFORMATION

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>PEL</u>	<u>TLV</u>
Mannich Base Adduct		30 - 50%	N/E	N/E
Aliphatic Amine	1477-55-0	0 - 5%	N/E	0.1 mg/m ³ skin

N/E indicates "not established"

SARA Title III, Section 313 ingredients: None

All ingredients are TSCA inventory listed.

SECTION III: PHYSICAL DATA

Boiling Point: > 200 deg F

Vapor Pressure: 18 mmHg at 72 deg F

Vapor Density: Not determined

Solubility in Water: Completely miscible

Appearance and Odor: Light paint consistency – slight ammonia odor

Specific Gravity: 1.1

Melting Point: Not determined

Evaporation Rate: Not determined

% Volatile by Volume: <50%

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Flash Point: >200 deg F, TCC Method

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for firefighters. Water may be helpful in keeping adjacent containers cool.

Unusual Fire and Explosion Hazards: Keep work areas free of hot metal surfaces and other source of ignition.

NFPA classification: Health: 2 Flammability: 1 Reactivity: 0

OSHA/NFPA Fire Hazard Classification: Class III B

LFL: Not determined **UFL:** Not determined

SECTION V: REACTIVITY DATA

Stability: Stable

Incompatibility: Strong acids and bases, selected epoxy resins and strong oxidizing agents.

Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, ammonia, nitrogen oxides and other unidentified toxic and/or irritating compounds.

Hazardous Polymerization: Will not occur.

SECTION VI: HEALTH HAZARD DATA

Primary Routes of Entry:

EYES: Severe eye irritant. May cause burns. Vapors may be irritating.

SKIN: Moderate skin irritant. May cause injury to skin following prolonged or repeated contact. Repeated exposure may cause sensitization of the individual.

INHALATION: Vapors/mists may be irritating to the upper respiratory tract. Repeated or prolonged exposure may result in lung damage. May cause respiratory tract sensitization.

INGESTION: Not expected to be a relevant route of exposure. However, the material may cause damage to the mouth, throat and stomach.

SYSTEMIC and OTHER EFFECTS: Product can be alkaline, corrosive and irritating to skin, ears, eyes and mucous membranes. May cause injury upon prolonged or repeated contact.

Carcinogenicity: Contains no ingredient listed as a potential carcinogen or as a carcinogen per OSHA, ACGIH, NTP or IARC at concentrations equal to or greater than 0.1%.

Emergency and First Aid Procedures:

EYES: Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.

SKIN: Wash immediately with soap and water. If irritation or sensitization occurs, remove individual from further contact with material. Remove and wash contaminated clothing before reuse.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: If this product is swallowed, administer 3-4 glasses of water. Do not induce vomiting. Seek medical advice.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Keep sources of ignition and hot metal surfaces isolated from the spill. Material may flow slowly. Scrape into containers for disposal.

Waste Disposal Methods: Dispose of according to all local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Keep containers closed when not in use. Avoid breathing vapors and prolonged or repeated contact with skin. DO NOT handle or store near flame, heat or strong oxidants. Do not store in direct sunlight. Avoid prolonged storage above 38 deg C (100 deg F).

SECTION VIII: CONTROL MEASURES

RESPIRATORY: Respiratory protection should not be needed. If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with ammonia & methylamine cartridges. In addition, spray application may require the use of paint pre-filters. If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

VENTILATION: General mechanical ventilation is sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

EYES: Use chemical safety glasses, splash-proof eye goggles or goggles with full faceshield.

CLOTHING/GLOVES: Use nitrile or other impermeable chemical resistant gloves. If potential for skin contact is present, wear impervious, long-sleeved, body covering clothing and rubber boots.

OTHER PROTECTIVE EQUIPMENT: The availability of eye washes and safety showers in work areas is recommended.

SECTION IX: TRANSPORT DATA

Proper Shipping Name: Not regulated

Hazard Class: Not regulated by D.O.T. regulations

Identification Number: None

Packing Group: None

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