

Product Name: Resin RS-36, RS-36HB(X), RS-36t(X), RS-36Mod(DJ-14-53-4)

MSDS No. 2190

Date of Preparation: June 4, 2001

Confidential

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1. Material and company identification

Material Type: Epoxy Resin

Label Identification: **RS-36, RS-36BH(x), RS-36T(x), RS-36Mod(DJ-14-53-4)**

Manufacturer & Address: YLA Inc., 2970 C Bay Vista Court, Benicia, California, USA, 94510

Telephone: Emergency # (707) 747-2750, Information # (707) 747-2750

2. Composition and information on ingredients

Family/ chemical name: Epoxy resin

<u>Hazardous ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>Exposure Limits</u>
Epoxy resins	mixture	65 to 71	Not established
Polyethersulfone	not available	3 to 4	Not established
Amine	80-80-1	22 to 25	Not established
Unsaturated polyamine amides	proprietary	0 to 2	Not established
Lewis acid	proprietary	0 to 2	Not established
Amorphous silica	67762-90-7	0 to 2	6 mg/m ³ Cal/OSHA PEL *
Carbon Black	trade secret	9	3.5 mg/m ³ Cal/OSHA PEL *
Elastomer	0068891-46-3	0 to 2	Not established

* Particulates and nuisance dust do not represent an air borne hazard while wetted with resin,

3. Hazards identification

Part I. Appearance and overview of significant concerns: Greyish resin that is semi-solid at room temperature. Masses of resin (greater than 50 grams) heated above 160^oF may polymerize in an uncontrolled exothermic reaction. Store in a freezer (protected from moisture) for safety and material integrity.

Part II. Adverse health effects and symptoms:

Carcinogenicity: None of the ingredients is listed as a carcinogen on IARC, NTP, or OSHA databases.

Primary Route(s) of entry: Dermal

Eyes: May cause eye irritation.

Skin: May cause skin irritation and dermatitis.

4. First Aid Measures

Ingestion: If swallowed, immediately give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person, Get immediate medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

Skin: For skin contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Eyes: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

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5. Fire Fighting

Flash Point: > 260°C

Flash Point Method Used: PMCC

Fire Fighting Extinguishing Media: Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazards: Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

6. Accidental Release Measures

This material is normally supplied in small quantities and is semi-solid at room temperatures. If spilled when warmed to a liquid state, absorb onto sand or other absorbent material. Shovel into closable container for disposal. Scrape, flush and scrub residue well with detergent. Do not flush residue into sewers discharging directly into domestic water systems or natural waterways.

7. Handling and storage

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. Individuals should wash thoroughly after handling. For industrial use only.

Storage: Store in a freezer at 40°F or colder for prolonged periods (protect from moisture). May be stored at room temperature for a few weeks with only minor degradation. DO NOT STORE under warm or hot conditions. NEVER let storage temperatures exceed 150°F.

8. Exposure controls and personal protection

Mechanical ventilation and local exhaust is recommended if resin is heated above 150°F.

Wear gloves and goggles to prevent skin and eye contact.

9. Physical and chemical properties

Color	Greyish
Physical state	Semi-solid or stiff paste
Solubility in water	Not determined
Vapor pressure	Not applicable
Specific gravity	Approx. 1.2 (H ₂ O = 1)
Boiling point	Not established
Percent Volatile	< 2%

10. Stability and reactivity

Stability: Stable at 40°F and colder. Degrades slowly at room temperature.

Conditions to avoid: Storage temperatures above 150°F.

Incompatibility: Strong alkali, acids.

Hazardous decomposition products: CO/CO₂, phenol, unknown hydrocarbons, nitrogen oxides.

Hazardous polymerization: This material is pre-catalyzed. The rate of reaction is temperature dependent.

11. Toxicological information

Not determined.

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12. Ecological information

No ecological information is available.

13. Disposal considerations

Un-polymerized resin should be disposed of as hazardous waste. Package in small quantities to avoid un-controlled exothermic reaction. Follow federal, state and local regulations. Fully polymerized resin may be disposed of as ordinary solid waste.

14. Transportation information

Not regulated.

15. Regulatory information.

None of the ingredients listed in Section 2 are on the California Proposition 65 List.

16 Other information

The above information is based on the data of which we are aware and is believed to be correct as of the issued date of this MSDS.

Prepared By: DB

Approved By: Susan Robitaille

MSDS Rev. Date: June 4, 2001

Revision Notes: All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory

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