Health	2
Flammability	1
Reactivity	1
Personal Protective Equip.	B

MATERIAL SAFETY DATA SHEET

Date of Prep - 6/20/96

Accepted by O.S.H.A.
Essentially similar to FORM OSHA - 20

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Product Identification

Product Class: Epoxies
Product Name: Liquid Roc 500 Low Odor-Twin Tube
Description: Amine Epoxy System packaged in a dual component side-by-side plastic tube. Part A is white, Part B is black component.

Hazardous Ingredients/ Identify Information

Ingredients:	CAS #	ACGIH TLV
Part A		
Epoxy resin	25068-38-6	not established
Part B		
cycloaliphatic amine	140-31-8	1 ppm skin
nonyl phenol	84852-15-3	not established.
tetraethylenepentamine	112 -57-2	not established
diethylenetriamine	111-40-0	1 (skin)
hydroxylated amine	90-72-2	5 ppm (skin)
silica	14808-60-7	0.1 mg/m3 dust

Physical Data

Boiling Point:	(Part A) 500° F (Part B) 424° F	Weight/Gallon @77F:	(Part A) 9.81 lbs. (Part B) 12.56 lbs.
Vapor Pressure:	(Part A) 32 mm Hg (Part B) 33 mm Hg	% volatile by Vol.:	(Part A) <1% (Part B) < 2%
Vapor Density:	(Part A) 4.6 (Part B) 4.6	Evaporation Rate:	(Part A) 1.9 (Part B) 1.4

Fire & Explosion Hazard

Flash Point:	Part A > 400° F ; Part B 175° F
Flammability Limits:	Lel - N/A Uel--N/A
Method Used:	TCC
Extinguishing Media:	Dry Chemical, Foam, or Carbon Dioxide, Water may be ineffective
Special Fire Fighting Procedures:	Fight as volatile liquid fire. Use water to keep fire-exposed containers cool to reduce pressure.
Unusual Fire and Explosion Hazards:	Keep away from heat sparks and open flame.

Health Hazard Data

Acute Overexposure: Irritant to skin, eyes, and respiratory tract.

EYE CONTACT HARMFUL - SEEK MEDICAL ATTENTION.

Chronic Overexposure: Prolonged breathing of vapors can cause dizziness, nausea, and headaches. Repeated contact can cause sensitization

Emergency and First Aid Procedures

Inhalation: Remove to fresh air. Restore breathing. Treat symptomatically

Eye Contact: Flush with large volumes of water for at least 15 minutes and seek medical attention

Skin Contact: Wash affected area with soap & water. Remove contaminated clothing. Consult a physician if irritation persists.

Ingestion: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting.
Seek medical attention. Aspiration of Part A into lungs can cause chemical pneumonitis which can be fatal.

Corrosive: Contains nonyl phenol which causes severe eye and skin burns. May cause blindness. Harmful or fatal if swallowed.

Crystalline silica - is considered a hazard by inhalation. IARC has classified as a probable carcinogen for humans (2A). This classification is based on the findings of laboratory studies. Crystalline silica is known to cause silicosis by inhalation of airborne dusts.

If the silica is encapsulated in the epoxy, no exposure to airborne dusts is to be expected. However, during removal by mechanical abrasion, appropriate safety practices should be followed to prevent inhalation of airborne dusts.

Reactivity Data

Stability: Stable - Hazardous polymerization may occur.

Conditions to Avoid: Avoid contact with Acids and Oxidizing agents.
Thermal Decomposition may produce carbon monoxide, carbon dioxide and oxides of nitrogen.
Do not leave mixed materials unattended as excessive heat may be generated by chemical reaction and curing.

Spill or Leak Procedures

Spills: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and pick up with shovel.
Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Stop spill at source.

Waste Disposal Methods: Place in closed containers. Carefully incinerate or use sanitary land fill in accordance with local and federal regulations.

Special Protection Information

Respiratory Protection: NIOSH approved organic vapor cartridge or respirator designed to remove combination of particulates and vapor in the absence of adequate ventilation or confined areas.

Ventilation: Local exhaust recommended. when appropriate, to control employee exposure.

Protective Gloves: Impervious gloves

Eye Protection: Chemical Splash Goggles

Other: Eyewash

Special Precautions

Handling and Storage: Practice reasonable care and cleanliness. Store material in cool dry location away from heat, sparks and open flame.

Other: Avoid gross contamination of skin and wash with soap & water.

Regulatory Information

OSHA Hazard Communication: This material safety data sheet has been prepared in compliance with the Federal OSHA hazard communication standard and this product is considered to be a hazardous chemical under that standard.

DOT proper shipping name: Amines, liquid, corrosive, n.o.s. (n-aminoethylpiperazine / nonylphenol), 8, UN 2735, PG III.

TCSA Inventory Status: Chemical components listed on TSCA inventory.

Sara (Title III) - Sections 302, 311, 312, & 313:

Section 302: Extremely Hazardous Substances (40 CFR 355)
This product does not contain ingredients listed in Appendix A of 40 CFR as an extremely hazardous substance.

Section 311 & 312: MSDS Requirements (40 CFR 370)
This product contains ingredients listed under 29 CFR 1910.1200 (c) as referenced in 40 CFR 370.

Section 313: List of Toxic Chemicals (40 CFR 372)
This product does not contain ingredients listed under 40 CFR 372.65.

Waste Disposal Methods: Consult with local regulatory agencies or corporate personnel for disposal methods that comply with local, state and federal health and environmental regulations.

User Identification

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.