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Personal Protection Equip. B*

MATERIAL SAFETY DATA SHEET

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Product Identification

Product Class: Polyester Resin Adhesive
Product Name: Liquid Roc 300 Polyester Pouch
Description: Polyester system packaged into two halves of a sealed inner sleeve/copolymer bag. Part A is the liquid resin component and Part B is the powdered hardener component.

Hazardous Ingredients

Ingredients:	CAS Number:	Exposure limits:
<u>Part A</u>		
Unsaturated Polyester resin	36346-15-3	None established
Styrene monomer	00100-42-5	PEL = 100 ppm PEL-C = 200 ppm TLV = 50 ppm STEL = 100 ppm
<u>Part B</u>		
Limestone (Pulverized)	01317-65-3	PEL = 5 mg/ m ³ (as resp. dust)
Dibenzoyl peroxide	00094-36-0	PEL = 5 mg/ m ³ TLV = 5 mg/ m ³
Dicyclohexyl phthalate	00084-61-7	None established

PEL = OSHA permissible exposure limit. TLV = ACGIH threshold limit value. This is an 8 hour time weighted average unless otherwise indicated by "C" (ceiling) or STEL (Short term exposure limit).

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Physical Data

Appearance and Odor: Part A - light yellow viscous liquid, styrene odor
Part B - white powder
Boiling Point: Part A - 248-282°F (120-139°C)
Part B - decomposes above 150°F (66°C)
Melting Point: Not determined
Vapor Pressure: Part A - 5 mm Hg @ 68°F (20°C) styrene
Vapor Density: Part A - 3.6 (styrene)
Evaporation rate: Not determined
Solubility in water: Nil
Specific Gravity: Part A - 1.66
Part B - Not determined
PH Not determined

Fire and Explosion Hazard Data

Flammability Classification: OSHA Class IC - Flammable Liquid
Flash Point: Part A - 93°F (34°C)
Flammable limits: LEL = 1.1 UEL = 6.1
Extinguishing media: Carbon dioxide, dry chemical, foam, water
Special fire fighting procedures: Cool with water spray. Use self-contained breathing apparatus.
Unusual fire & explosion hazardous: Isolate from heat, electrical equipment, sparks, and open flame. Decomposition and combustion products may be toxic.

Reactivity Data

Stability: Stable at temperature below 122°F (50°C).
Incompatibility: Strong acids, peroxides and other oxidizing agents.
Hazardous decomposition products: Carbon dioxide, carbon monoxide and biphenyl.
Hazardous polymerization: Not expected to occur under normal temperatures and pressures.
Conditions to avoid: Part A - Styrene will polymerize at elevated temperatures.
Part B - Dibenzoyl peroxide will decompose at temperatures >140°F (60°C).

Health Hazard Data

Carcinogenicity: Styrene is a suspected carcinogen in animals with inconclusive data on humans. The nature and use of this product should not pose a cancer risk to humans. Crystalline silica is considered a hazard by inhalation and IARC has classified it as a probable carcinogen for humans (2A). This classification is based on the findings of laboratory studies. It is known to cause silicosis by inhalation of airborne dusts. If the silica is encapsulated in the adhesive no exposure to airborne dusts is to be expected. However, during removal of hardened adhesive by mechanical abrasion, appropriate safety practices should be followed to prevent inhalation of airborne dusts.

Primary routes of exposure: Dermal, inhalation

Signs and symptoms of exposure: Causes eye burns. Skin irritant. Can have a narcotic effect if inhaled. Can cause allergic skin and respiratory condition. "Styrene sickness" consisting of drowsiness, nausea, headache, fatigue, and dizziness has been mentioned in workers exposed at 200-700 ppm.

Medical conditions aggravated by exposure: Skin and eye conditions.

Emergency and First Aid Procedures

Eyes: Immediately flush with plenty of water for at least 15 minutes. Call a physician.
Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse.
Inhalation: Move victim to fresh air. Give oxygen and/or artificial respiration if needed. Call a physician.
Ingestion: Give plenty of water to drink. Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person.
Other: Referral to a physician is recommended if there are any questions about the seriousness of the injury/exposure.

Safe Handling and Personal Protective Equipment

Respiratory Protection: Use NIOSH approved organic vapor respirator when vapor concentrations exceed recommended exposure limits.
Ventilation: General (natural or mechanically induced fresh air movements that maintain vapor concentrations below recommended exposure limits).
Eye Protection: Safety Glasses (side shields recommended).
Protective Gloves: Impermeable (Neoprene or rubber).

Precautions For Safe Handling And Use

Precautionary Labeling: Warning! Flammable. Causes eye burns and skin irritation. Can have an anesthetic effect if inhaled. Can cause allergic skin and respiratory reactions. Keep away from heat, sparks, and open flame. Avoid contact with eyes, skin and clothing. Avoid breathing in vapor. Avoid prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling.

Handling & Storing: Keep in a cool dry place out of direct rays of sun. Store below 75°F (24°C). Keep away from ignition sources such as excess heat, sparks, and open flame.

Spill Procedures: Remove all sources of ignition. Cover with absorbent material and place in salvage container for proper disposal.

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: Polyester resin kit/UN 3269, 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 contains 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 Notification

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.**