

Material Safety Data Sheet



To the Purchaser: This MSDS contains important environmental, health and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

QUICK IDENTIFIER (In Plant Common Name)

MARK-29.9 Part A

Issue Date: 04/17/07

Manufacturer's Name & Address	POLY-CARB, INC. 33095 Bainbridge Road Solon, Ohio 44139	Emergency Telephone No.	(440) 248-1223
		Other Info. Calls	(440) 248-1223
Signature / Name of Person Responsible for Preparation	Dr. Arnel Potter	Date Prepared	April 17, 2007

SECTION 1 - IDENTITY

Common Name (Used on label) (Trade Name & Synonyms)	MARK-29.9 A	Cas No.	NF
Chemical Name	NF	Chemical Family	Epoxy Resin
Formula	NF		

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Components [chemical & common name(s)]	%	OSHA PEL (units)	ACGIH TLV (units)
Epoxy Resin	Trade Secret	NF	NF
Titanium-di-oxide	13463-67-7	NF	NF
Industrial Talc	Trade Secret	5mg/m ³	5mg/m ³

NFPA RATING HEALTH/FLAMMABILITY/REACTIVITY - 1/1/0
HMIS RATING HEALTH/FLAMMABILITY/REACTIVITY - 1/1/0
HMIS PERSONAL PROTECTION - C
% GIVEN FOR ALL SARA TITLE III 313 HAZARDOUS CHEMICALS
COMPLIES WITH PENNSYLVANIA RIGHT-TO-KNOW REQUIREMENTS

INFORMATION FOR MIXTURES IS BASED ON CONSTITUENT MSDS.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	>200°F	Specific Gravity (H ₂ O = 1)	NF	Vapor Pressure (mm Hg)	NF		
Percent Volatile by Volume (%)	<0	Vapor Density (Air = 1)	NF	Evaporation Rate (Butyl Acetate = 1)	NF	Melting Point	NA
Solubility in Water	Insoluble	Reactivity in Water	Non-reactive				
Appearance & Odor	White viscous liquid; aromatic odor.						

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used)	200°F	Flammable Limits in air % by volume	Lower NF	Upper NF	Auto Ignition Temperature	NF
Extinguishing Media	Carbon dioxide, foam, or dry chemicals may be used.					
Special Fire Fighting Procedures	Wear self-contained breathing equipment. Water may be used to cool containers by trained firefighters.					
Unusual Fire and Explosion Hazards	Dense smoke expected. Decomposition and combustion products are toxic.					

SECTION 5 - PHYSICAL HAZARDS

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 Stability Unstable [] Conditions
 Stable [X] To Avoid **Avoid high temperatures and open flame.**

 Incompatibility
 (Materials to Avoid) **Contact with ammonia, amines, bases, acids and oxidizing agents.**

 Hazardous
 Decomposition Products **Carbon monoxide, carbon dioxide, phenolic fumes.**

 Hazardous May Occur [] Conditions
 Polymerization Will Not Occur [X] To Avoid **High temperatures and moisture.**
SECTION 6 - HEALTH HAZARDS

Primary Route(s) of Entry to Body:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
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Signs and Symptoms of Exposure	1. Acute Overexposure:	Irritation of skin, eyes, and respiratory system.
	2. Chronic Overexposure:	Sensitization

 Medical Conditions Generally Aggravated by Exposure **Allergy, Eczema, and Skin Conditions.**

 Health Hazards **Sensitization, irritant.**

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes [] No [X]	I.A.R.C. Monographs	Yes [] No [X]	OSHA	Yes [] No [X]
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OSHA Permissible Exposure Limit (PEL)	5mg/m ³	ACGIH Threshold Limit Value (TLV)	5mg/m ³	Other Exposure Limit Used	As free dust.
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SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

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| 1. Inhalation | Move to fresh air. Give oxygen if breathing is difficult. Obtain physician. |
| 2. Eyes | Flush with lukewarm water for 15 min. Obtain physician. |
| 3. Ingestion | If conscious, give water. Do not induce vomiting. Immediately obtain physician. |
| 4. Skin | Wash with soap and water. Remove contaminated clothing. Wash before reuse. |

SECTION 8 - CONTROL MEASURES

 Respiratory Protection (Specify type) **Chemical cartridge respirator, if needed.**

Ventilation	Local Exhaust Yes	Mechanical (General)	Maintain good ventilation
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Protective Gloves	Solvent Resistant	Eye Protection	Chemical eye goggles.
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 Other Protective Clothing or Equipment **Chemical resistant apron.**
SECTION 9 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

 Precautions to be Taken in Handling and Storage **Store in a cool, dry area with good ventilation. Do not store near peroxides or other incompatible materials.**

 Work/Hygienic Practices **Avoid skin contact and inhalation. Wash thoroughly after handling.**

 Other Precautions **Ventilate area; remove ignition sources.**

 Steps to be Taken in Case Material is Released or Spilled **Take up with absorbent material. Shovel into closable containers.**

 Waste Disposal Methods **Review local, state and federal regulations for disposal.**

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SECTION 10 – TRANSPORTATION INFORMATION**MARK-29.9 Part A**

DOT Shipping Name: **Not regulated by D.O.T.**
UN/NA Number: -
DOT Hazard Class: -
Packaging Group: -

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but there are **NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO ACCURACY OR SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCES OF ITS USE.**