

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 B

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)

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Cas No. NF

Chemical Name

NF

Chemical Family Amine Mixture

Formula

NF

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Components [chemical & common name(s)] % OSHA PEL (units) ACGIH TLV (units)

Aliphatic Polyamine
Alkyl-phenol
Industrial Talc

Trade Secret
Trade Secret
Trade Secret

NE
NE
5mg/m³

NE
NE
5mg/m³

NFPA RATING HEALTH/FLAMMABILITY/REACTIVITY - 3/2/0

HMIS RATING HEALTH/FLAMMABILITY/REACTIVITY - 3/2/0

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	>266°F	Specific Gravity (H ₂ O = 1)	NF	Vapor Pressure (mm Hg)	NE		
Percent Volatile by Volume (%)	0	Vapor Density (Air = 1)	NF	Evaporation Rate (Butyl Acetate = 1)	NF	Melting Point	NA
Solubility in Water	Slight	Reactivity in Water	Non-reactive				
Appearance & Odor	Black liquid; amine odor.						

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used)	255°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 apparatus. Water may be used to cool containers by trained fire fighters.					
Unusual Fire and Explosion Hazards	Decomposition and combustion products are toxic. Use self-contained released during fire; dense smoke expected.					

SECTION 5 - PHYSICAL HAZARDS

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

Incompatibility **Contact with acids, oxidizing agents, and epoxies under uncontrolled (Materials to Avoid) conditions.**

Hazardous Decomposition Products **Carbon monoxide, carbon dioxide, NH₃, nitrogen oxides, phenols.**

Hazardous Polymerization May Occur [] Conditions **Moisture and heat.**
 Will Not Occur [X] To Avoid

SECTION 6 - HEALTH HAZARDS

Primary Route(s) of Entry to Body: Inhalation? Yes Skin? Yes Ingestion? Yes

Signs and Symptoms of Exposure 1. **Acute Overexposure:** Irritation and burns to skin, eyes, and respiratory system.
 2. **Chronic Overexposure:** Sensitization; burns to skin; eye damage.

Medical Conditions Generally Aggravated by Exposure **Skin and respiratory conditions.**

Health Hazards **Sensitizer, toxic and corrosive.**

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]

OSHA Permissible Exposure Limit (PEL) 5mg/m³ ACGIH Threshold Limit Value (TLV) 5mg/m³ Other Exposure Limit Used **As free dust.**

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

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 clothing before reuse.

SECTION 8 - CONTROL MEASURES

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

Ventilation Local Exhaust **Yes** Mechanical (General) **Maintain good ventilation**

Protective Gloves **Solvent resistant** Eye Protection **Chemical eye goggles.**

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 with other incompatible materials.**

Work/Hygienic Practices **Avoid skin contact and inhalation. Wash to minimize any residue.**

Other Precautions **Self-contained breathing equipment may be required.**

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

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



DOT Shipping Name: **Corrosive Liquid, N.O.S.,
(aminoethylpiperazine, nonylphenol)**
UN/NA Number: **UN 1760**
DOT Hazard Class: **8**
Packaging Group: **III**

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