

MATERIAL SAFETY DATA SHEET

Date Revised: Jan 2005
Supersedes: Sep 2000

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Gorilla urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.

SECTION I

MANUFACTURER'S NAME Gorilla PVC Cement LLC ADDRESS P. O. Box 848969, Hollywood, FL 33084	Transportation Emergencies: CHEMTREC: Medical Emergencies: Business: (888) 367-4583
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CHEMICAL NAME and FAMILY Mixture of Polyvinyl Chloride and Cyclic Amine	TRADE NAME: GORILLA PVC Cement for Plastic Pipe FORMULA: Proprietary
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SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA

	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Polyvinyl Chloride Resin	NON/HAZ		N/A		N/A	
N-Methylpyrrolidone	872-50-4	>85*	N/E		N/E	

N/E = Not Established, N/A = Not Applicable

* Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

SHIPPING INFORMATION FOR GALLON CONTAINERS OR ABOVE DOT Shipping Name: Not regulated DOT Hazard Class: Identification Number: Packaging Group: Label Required: None	SPECIAL HAZARD DESIGNATIONS <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 10%;">HMIS</th> <th style="width: 10%;">NFPA</th> <th style="width: 50%;">HAZARD RATING</th> </tr> </thead> <tbody> <tr> <td>HEALTH:</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td>0 - MINIMAL</td> </tr> <tr> <td>FLAMMABILITY:</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td>1 - SLIGHT</td> </tr> <tr> <td>REACTIVITY:</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td>2 - MODERATE</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT:</td> <td></td> <td></td> <td>3 - SERIOUS</td> </tr> <tr> <td></td> <td style="text-align: center;">H</td> <td></td> <td>4 - SEVERE</td> </tr> </tbody> </table> <p>H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron</p>		HMIS	NFPA	HAZARD RATING	HEALTH:	2	2	0 - MINIMAL	FLAMMABILITY:	0	0	1 - SLIGHT	REACTIVITY:	0	0	2 - MODERATE	PROTECTIVE EQUIPMENT:			3 - SERIOUS		H		4 - SEVERE
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PROTECTIVE EQUIPMENT:			3 - SERIOUS																						
	H		4 - SEVERE																						
SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE GALLON DOT Shipping Name: Not regulated DOT Hazard Class:																									

SECTION III - PHYSICAL DATA

APPEARANCE Clear, medium bodied syrupy liquid	ODOR Amine	BOILING POINT (°F/°C) 401°F (204.3°C) Based on N-Methylpyrrolidone
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°) Typical 1.10 ± 0.040	VAPOR PRESSURE (mm Hg.) <1 millibar @ 68°F (20°C) based on N-Methylpyrrolidone	PERCENT VOLATILE BY VOLUME (%) Approx: 80 - 90 %
VAPOR DENSITY (Air = 1) 3.4	EVAPORATION RATE (BUAC = 1) N/A	SOLUBILITY IN WATER Solvent - complete. Resin precipitates.

VOC STATEMENT: VOC as manufactured: 920 Grams/Liter. Maximum VOC emission per SCAQMD Rule 1168, Test Method 316A: 510 Grams/Liter.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 204° F / 95.6 °C (ASTM D-93-73) Based on UL	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 1.3	UEL 9.5
FIRE EXTINGUISHING MEDIA In case of fire, use water, fog, foam, carbon dioxide or dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should be equipped with self-contained breathing apparatus and turn-out gear.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Low, when exposed to heat or flames. Can react with oxidizing materials.			

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:

Inhalation
 Skin Contact
 Eye Contact
 Ingestion

EFFECT OF OVEREXPOSURE

ACUTE:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. May cause drowsiness, irritation of eyes and nasal passages.
Skin Contact: Prolonged contact causes irritation and defatting of the skin.
Eye Contact: Contact with eyes causes irritation and temporary corneal clouding.
Ingestion: May cause nausea, dizziness, gastric upset and vomiting.

CHRONIC:

In animal studies in rats and mice, N-MP was embryotoxic by the oral and intraperitoneal routes at very high dose levels. In a dermal exposure study with rats, N-MP was only embryotoxic at the high dose levels. This effect was attributed to maternal toxicity.

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
N. AP.	N. AP.	N. AP.	N. AP.	N. AP.	N. AV.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not known.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call physician.
Eye Contact: Flush eyes with flowing water for 15 minutes and call a physician.
Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.
Ingestion: If swallowed, dilute with water. Immediately induce vomiting by sticking finger down victims throat. Call physician or poison control center immediately.

SECTION VI - REACTIVITY

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Moisture - compound is hygroscopic

INCOMPATIBILITY (MATERIALS TO AVOID) Strong acids, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
 Oxides or nitrogen and carbon may form under burning conditions.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	N/A

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

WASTE DISPOSAL METHOD

Follow local, State and Federal regulations. Incinerate or bury as a solid after absorption on cementation in a licensed facility. Do not discharge into waterways or sewer systems.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator or an air supplied respirator as appropriate. Use only SCBA for emergencies.

VENTILATION

Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

PROTECTIVE GLOVES

Butyl rubber or Fep teflon gloves

EYE PROTECTION

Splashproof chemical goggles

OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES

Impervious apron, boots as necessary. A source of running water to flush or wash the eyes and skin in case of contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: All label precautions must be observed when handling and storing. Store in the shade between 40°F - 110°F (5°C - 43.7°C). Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.

OTHER PRECAUTIONS

Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.