

MATERIAL SAFETY DATA SHEET

FILE NO.: VEN 1000

MSDS DATE: 03/17/2009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VEN1000
PRODUCT DESCRIPTION: Bonding Epoxy

HMIS RATING:
HMIS HEALTH 1
HMIS FLAMMABILITY 1
HMIS REACTIVITY 0
HMIS PERSONAL PROTECTION B

HMIS SCALE: 0 to 4; 0 least risk or hazard; 4 high risk or hazard

HMIS PERSONAL PROTECTION B RATING is for safety glasses and gloves

MANUFACTURER: JP Specialties, Inc.
ADDRESS: 551 Birch St. Lake Elsinore, CA 92530

EMERGENCY PHONE: 1-951-674-6869
FAX PHONE: 1-951-674-1315

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OSHA Hazardous Ingredients: NA

INGREDIENT:

Resin: Novolac Resin: CAS# 28064-14-4, 30-50%
OSHA (PEL/STEL) - NE
ACGIH (TWA/STEL) -NE

Hardener: Cycloaliphatic Amine: CAS#Mixture 80-90 %
OSHA (PEL/STEL) - NE
ACGIH (TWA/STEL) -NE

1,2 - Diaminocyclohexane CAS# 694-83-7 , 10%
OSHA (PEL/STEL) - NE
ACGIH (TWA/STEL) -NE

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Toxic fumes are released in fire situation. Harmful if swallowed. May cause allergic skin and eye reaction

SECTION 4: FIRST AID MEASURES

EYES: Resin - Immediately flush eyes with water for 15 minutes with running water. Call physician.
Hardener - Immediately flush eyes with water for 15 minutes with running water. Call physician.
SKIN: Resin - Promptly wash with mild soap and water.
Hardener - Promptly wash with mild soap and water.

INGESTION: Resin - If large amounts are ingested, induce vomiting if conscious. Low toxicity.
Hardener - Call physician immediately. Give generous amounts of water if conscious, but **do not induce vomiting.**

INHALATION: Resin - Remove to fresh air. Give oxygen if breathing is difficult.
Hardener - Remove to fresh air. Give oxygen if breathing is difficult.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

OVEREXPOSURE EFFECTS: Overexposure to this material can cause chemical burns to the skin and eyes and inhalation of vapors can cause severe respiratory irritation. Can cause allergic skin and respiratory reactions. Can have effects on the nervous system evidenced by central nervous system depression, tremors, paralysis, diarrhea and vasodilation. May also cause headache, nausea and dizziness.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, eczema or skin conditions.

SECTION 5: FIRE-FIGHTING MEASURES

	<u>Resin</u>	<u>Hardener</u>
Flash Point:	>300°F (149°C)	>200°F (93°C)
Flash Point Method Used:	Closed cup	
Fire Fighting Extinguishing Media:	Carbon Dioxide, foam, dry chemical	
Fire Fighting Equipment:	Use a self-contained breathing apparatus	
Fire and Explosion Hazards:	Decomposition and combustion products may be toxic.	

NOTE: decomposition and combustion products may be toxic

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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: (Steps to be taken if material is spilled)

Resin - Shovel into closable container for disposal.

Hardener - Absorb into sand or other absorbent material. Shovel into closable container and dispose of in a professional manner.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep away from heat, sparks and open flame. Ground and bond metal containers for liquid transfer to avoid static spark. Store at temperatures between 2°C and 60°C in tightly closed containers in dry area to prevent moisture and carbon dioxide contamination.

OTHER PRECAUTIONS: Keep away from heat, sparks and open flame. Ground and bond metal containers for liquid transfer to avoid static spark. Store at temperatures between 2°C and 60°C in tightly closed containers in dry area to prevent moisture and carbon dioxide contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general mechanical ventilation and local exhaust

RESPIRATORY PROTECTION: Organic chemical cartridge respirator if needed in non-vented area

EYE PROTECTION: Splash-proof chemical goggles

SKIN PROTECTION: Impervious gloves

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear protective equipment to prevent exposure and personal contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Resin Light Gray	Hardener Brown
ODOR:	None	slight sweet odor
PHYSICAL STATE:	Liquid	Liquid
SOLUBILITY IN WATER:	Negligible	Negligible

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids and bases

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Resin - Carbon Monoxide, Carbon Dioxide, Phenolics,

Hardener - Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Nitric Acid in a fire, Fumes, Ammonia when heated and Aldehydes.

HAZARDOUS POLYMERIZATION:

Resin - will not occur

Hardener - will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Effects (Ingestion):

Resin - LD 50 (rabbits): 4000 mg/kg

Hardener - LD 50 (rabbits): >1200 mg/kg

Acute Dermal Toxicity (LD50 , rabbit)

Resin - >20,000 mg/kg

Hardener - >1000.00 mg/kg

Acute Inhalation Toxicity (LD50 , rat)

Resin - Not a problem unless heated in high temperature.

Hardener - No data.

Eye Irritation:

Resin- minor transient irritation.

Hardener- Irritant.

SECTION 12: ECOLOGICAL INFORMATION

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Amines, in general, may be toxic to aquatic organisms. Epoxies are only slightly soluble in water.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

Resin: Not regulated by D.O.T.
Hardener: Not regulated by D.O.T.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Hazard Class:

Resin: Irritant
Hardener: Irritant

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

EPA SARA Title III: Section 304 - CERCLA: Not listed.

EPA SARA Title III: Section 312 (40CFR370) hazard class: Immediate Health Hazard.

EPA SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Sec. 313 (40 CFR 372).

STATE REGULATIONS: Proposition 65 Substances (component(s)) known to the state of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986").

Resin: none
Hardener: none

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The information and recommendations provided herein are believed to be accurate at the time of preparation obtained from sources believed to be reliable. JP Specialties, Inc., makes no warranty, expressed or implied, concerning this document or the accuracy of the information contained herein.

The information and recommendations contained herein are not intended to relieve the reader of responsibility to investigate and understand the laws, procedures, and regulations applicable to the readers enterprise, not to relieve the reader of responsibility to comply with laws applicable to the readers enterprise and place of business and to verify independently the information provided in this document as it may relate to the reader's specific process or application

This Material Safety Data Sheet supersedes all other previously dated sheets for this product.

End of Section