

# MATERIAL SAFETY DATA SHEET

FILE NO.: VEN 500  
MSDS DATE: 03/17/2009

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VEN500  
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

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### INGREDIENT:

Resin: DGEBA – Novolac Epoxy Resin -  
CAS# 28064-14-4 (10%-50%)  
OSHA / PEL - NE  
ACGIH / TLV – NE  
DGEFB – Epoxy Resin CAS#25068-38-6 (10%-50%)

Hardener: **Modified Polyamidoamine**  
CAS# mixture 20%-30%  
OSHA / PEL NE  
ACGIH / TLV NE  
**Polyamide**  
CAS# mixture 60%-80%  
OSHA / PEL NE  
ACGIH / TLV NE

## SECTION 3: HAZARDS IDENTIFICATION

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

## SECTION 4: FIRST AID MEASURES

**EYES:** Resin - Immediately flush eyes with water for 15 minutes. Call physician.  
Hardener - Immediately flush eyes with water for 15 minutes. 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.  
Hardener - Call physician immediately. Give generous amounts of water if conscious. 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.

**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.

**ADDITIONAL INFORMATION:** Promptly remove wet contaminated non-imperious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	<u>Resin (Both R &amp; W)</u> >300oF (149oC)	<u>Hardener</u> >200oF (93oC)
<b>Flash Point Method Used:</b>	Closed cup	
<b>Fire Fighting Extinguishing Media:</b>	Carbon Dioxide, foam, dry chemical	
<b>Fire Fighting Equipment:</b>	Use a self-contained breathing apparatus	
<b>Fire and Explosion Hazards:</b>	Decomposition and combustion products may be toxic.	

**NOTE:** decomposition and combustion products may be toxic

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Resin:** Shovel into closeable container for disposal.

**Hardener:** Absorb into sand or other absorbent material. Shovel into closeable container and dispose of in professional manner.

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS:** Do not get in eyes, on skin, on clothing. Do not breathe vapor, mist or spray. Use only with adequate ventilation. Individuals should wash thoroughly after handling. For industrial use only.

**STORAGE INFORMATION:** Keep away from heat, sparks and open flame. Ground and bond metal containers for liquid transfer to avoid static sparks. Store at temperatures between 20°C and 40°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

	<b>Resin</b>	<b>Resin (B [alt])</b>	<b>Hardener (for Both)</b>
<b>APPEARANCE:</b>	Dark Gray, Light Gray, Red, Blue	Gray, Brown Olive Brown	Off-White, Reddish, Amber
<b>ODOR:</b>	None	None	Slight sweet odor
<b>PHYSICAL STATE:</b>	Liquid	Liquid	Liquid
<b>SOLUBILITY IN WATER (% by weight):</b>	Negligible	Negligible	Negligible
<b>MELTING POINT:</b>	<0o F (-18o C)	<0o F (-18o C)	<0o F (-18o C)
<b>DENSITY:</b>	1.45	1.48	0.97
<b>pH:</b>	ca 5		ca 10

## 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, and Phenolics

**HARDENER:** Carbon Monoxide, Carbon Dioxide, Phenolic Nitrogen Oxides and Compounds

### **HAZARDOUS POLYMERIZATION:**

**RESIN:** Will not occur

**HARDENER:** Do not heat in bulk as dangerous decomposition may occur, liberating toxic fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **TOXICOLOGICAL INFORMATION:**

#### **ACUTE ORAL EFFECTS (Ingestion):**

**Resin** - LD50 (rabbits): 4000 mg/kg

**Hardener** - LD50 (rabbits): 3000 mg/kg

**SENSITIZATION:** Can cause skin and respiratory sensitization

**SKIN IRRITATION:** Irritant

**EYE IRRITATION:** Irritant

## SECTION 12: ECOLOGICAL INFORMATION

**ADDITIONAL INFORMATION:** 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

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DOT: Not regulated

## **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. This product is considered to be a hazardous chemical under that standard.

**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

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

**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). This information must be included in all MSDS's that are copied and distributed for this material.

## **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**