

MATERIAL SAFETY DATA SHEET

FILE NO.:
MSDS DATE:

VEN500
07/18/2013

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VEN500 Part A
PRODUCT DESCRIPTION: Bonding Epoxy

MANUFACTURER: JP Specialties, Inc.
ADDRESS: 25811 Jefferson Ave Murrieta, CA 92562

EMERGENCY PHONE: 1-800-821-3859
FAX PHONE: 1-951-763-7074

SECTION 2: HAZARDS IDENTIFICATION

THIS PRODUCT IS CONSIDERED HAZARDOUS AS DEFINED UNDER 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

ROUTES OF ENTRY:

EYES: Yes

SKIN: Yes

INGESTION: Yes

INHALATION: Yes

HEALTH HAZARDS (Acute & Chronic): Contact may irritate or burn eyes. Eye contact may result in corneal injury and/or conjunctiva. Do not get this material in contact with eyes. Irritating to skin. Avoid contact with the skin. May cause cancer by inhalation. Prolonged inhalation may be harmful. Avoid breathing dust/fumes/gas/mist/vapors/spray. Harmful if swallowed. Components of the product may be absorbed into the body by ingestion. Do not ingest. Target organs are cardiac, eyes, respiratory system and stomach. Prolonged exposure may cause chronic effects.

SIGNS AND SYMPTOMS OF EXPOSURE: Corneal damage. Conjunctivitis. Irritation of eyes and mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not available

TOXICOLOGICAL DATA:

COMPONENT	TEST RESULTS
CARBON BLACK (1333-86-4)	Acute Oral LD50 Rat: > 8000 mg/kg

CARCINOGENICITY

ACGIH Carcinogens:
CARBON BLACK (1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to humans

I.A.R.C Monographs Overall Evaluation of Carcinogenicity:
CARBON BLACK (1333-86-4) 2B Possibly carcinogenic to humans

SECTION 3: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

SKIN CONTACT: Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

INHALATION: Move to fresh air, oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

INGESTION: Rinse mouth thoroughly. DO NOT induce vomiting without advice from a poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a poison control center immediately.

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NOTES TO PHYSICIAN: In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

GENERAL ADVICE: If exposed or concerned, get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 4: FIRE-FIGHTING MEASURES

BOILING POINT: 212°F (100°C) estimated

SPECIFIC GRAVITY (H2O=1): N/A

MELT/ FREEZE PT.: N/A

SOLUBILITY IN WATER: N/A

VAPOR PRESSURE (MM HG): N/A

VAPOR DENSITY (AIR-1): N/A

AUTO IGNITION TEMPERATURE: N/A

RELATIVE DENSITY: N/A

APPEARANCE AND ODOR: Liquid (color, odor, odor threshold and pH are not available)

OTHER DATA

FLAMMABILITY CLASS: Combustible IIIB estimated

SPECIAL HAZARD DESIGNATIONS

FLASH POINT: 482°F (250°C) estimated

H.M.I.S. RATING
HEALTH: 1*
FLAMMABILITY: 1
PHYSICAL HAZARD: 2
PROTECTION:

NFPA
HEALTH: 1
FLAMMABILITY: 1
INSTABILITY: 0
SPECIAL:

KEY
0-MINIMAL
1-SLIGHT
2-MODERATE
3-SERIOUS

FLAMMABLE LIMITS IN AIR, % BY VOLUME UEL UPPER: N/A

LEL LOWER: N/A

EXTINGUISHING MEDIA: Dry chemical powder, Carbon dioxide (CO2), Alcohol foam, water fog

SPECIAL FIREFIGHTING PROCEDURES: Wear suitable protective equipment. Wear full protective clothing including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do so without risk.

UNUSUAL FIRE AND EXPLOSION HAZARDS: During fire, gases hazardous to health may be formed.

SECTION 5: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Use care in handling/storage. Keep away from heat, sparks and open flame. Keep container tightly closed. Keep container dry. Keep out of the reach of children. Do not get this material in contact with eyes. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid contact with skin. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release into the environment.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material if this is without risk. Dike the spilled material where this is possible. Never return spills to original containers for re-use.

FOR LARGE SPILLS: Do not get water on spilled substance or inside containers. Dike far ahead of spill for later disposal. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

FOR SMALL SPILLS: Clean surface thoroughly to remove residual contamination. Absorb spill with vermiculite or other inert material.

WASTE DISPOSAL: Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable local, state and federal regulations. Waste codes are not applicable.

SECTION 6: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION :

LOCAL: N/A

SPECIAL: N/A

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MECHANICAL: N/A

OTHER: N/A

RESPIRATORY PROTECTION: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

EYE/FACE PROTECTION: Do not get in eyes. Chemical goggles are recommended.

SKIN PROTECTION: Avoid contact with the skin. Chemical resistant gloves. Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

OTHER:

CONTROL PARAMETERS

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
CARBON BLACK (1333-86-4)	TWA	3mg/m3	Inhalable Fraction

US. OSHA TABLE Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
CARBON BLACK (1333-86-4)	PEL	3.5mg/m3

SECTION 7: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal conditions

HAZARDOUS POLYMERIZATION: Does not occur

CONDITIONS TO AVOID: Contact with incompatible materials. Heat, flame and sparks.

MATERIALS TO AVOID: Peroxides. Fluorine. Chlorine. Incompatible with oxidizing agents. This product may react with strong acids. This product may react with strong alkalis.

HAZARDOUS DECOMPOSITIONS OR BY-PRODUCTS: Toxic gas. If product is burned, hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

SECTION 8: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable local, state and federal regulations. Waste codes not applicable.

SECTION 9: OTHER INFORMATION

HAZARDOUS COMPONENTS

	CAS#	Percent
2,3-EPOXYPROPYL NEODECANOATE	26761-45-5	2 - 12
CARBON BLACK	1333-86-4	0 - 1

NON-HAZARDOUS COMPONENTS

	CAS#	Percent
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN	25068-38-6	35 - 65
MINERAL FILLER	Mixture	35 - 65
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4	1 - 6
PROPRIETARY INGREDIENTS	N/A	0 - 5

ECOLOGY

ECO-TOXICITY - Contains a substance which causes risk of hazardous effects to the environment.

ENVIRONMENTAL EFFECTS - An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. May cause long-term adverse effect in the environment.

Persistence and degradability not available

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AQUATIC TOXICITY - Contains a substance which causes risk of hazardous effects to the environment. It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods

IATA/IMDG

Not regulated

REGULATORY INFORMATION

US Federal Regulations	Food Contact (FDA): 21 CFR 175.300 compliant when applied as instructed by the manufacturer.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))	not regulated
DEA Essential Chemical Code Number	not regulated
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12 (c))	not regulated
DEA Exempt Chemical Mixtures Code Number	not regulated
CERCLA (Superfund) reportable quantity	none
Superfund Amendments & Reauthorization Act of 1986 (SARA) Hazard Categories	
Immediate Hazard	No
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Section 302 Extremely hazardous substance	No
Section 311 hazardous chemical	No

INVENTORY STATUS

COUNTRY OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO*)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IESCS)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List	No
New Zealand	New Zealand Inventory	No
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

STATE REGULATIONS

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
CARBON BLACK (CAS 1333-86-4) Listed February 21, 2003 Carcinogenic
US - New Jersey RTK - Substances: Listed Substances
CARBON BLACK (CAS 1333-86-4) Listed
US - Pennsylvania RTK - Hazardous Substances: Listed substance
CARBON BLACK (CAS 1333-86-4) Listed

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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

MATERIAL SAFETY DATA SHEET

FILE NO.:
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VEN500
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VEN500 Part B
PRODUCT DESCRIPTION: Bonding Epoxy

MANUFACTURER: JP Specialties, Inc.
ADDRESS: 25811 Jefferson Ave Murrieta, CA 92562

EMERGENCY PHONE: 1-800-821-3859
FAX PHONE: 1-951-763-7074

SECTION 2: HAZARDS IDENTIFICATION

THIS PRODUCT IS CONSIDERED HAZARDOUS AS DEFINED UNDER 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

DANGER: CORROSIVE

ROUTES OF ENTRY:

EYES: Yes

SKIN: Yes

INGESTION: Yes

INHALATION: Yes

HEALTH HAZARDS (Acute & Chronic): Causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes. Causes skin burns and may cause redness and pain. Do not get this material in contact with skin. Causes burns upon inhalation. Irritating to the respiratory system. Prolonged inhalation may be harmful. Do not breathe dust/fumes/gas/mist/vapors/spray. Do not ingest. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Harmful if swallowed. Causes burns.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of nose and throat.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not available

TOXICOLOGICAL DATA:

ACGIH: No
NTP: No
I.A.R.C: No
OSHA: No

COMPONENT

SP-2000 Series Part B (Mixture)

TEST RESULTS

Acute Dermal LD50 Rabbit: 11780.7969 mg/kg estimated
Acute Inhalation LC100 Rat: 1232.6656 mg/l estimated
Acute Inhalation LC50 Rat: 6163.3281 mg/l estimated
Acute Oral LD50 Mouse: 9738.0586 mg/kg estimated
Acute Oral LD50 Rabbit: 11956.8564 mg/kg estimated
Acute Oral LD50 Rat: 7278.0962 mg/kg estimated
Acute Other LD50 Guinea Pig: 2465.3313 mg/kg estimated
Acute Other LD50 Mouse: 1943.6663 mg/kg estimated
Acute Other LD50 Rat: 322.8487 mg/kg estimated

BENZYL ALCOHOL (100-51-6)

Acute Dermal LD50 Rabbit: 2000 mg/kg
Acute Inhalation LC100 Rat: 200-300 mg/l 8 hours
Acute Inhalation LC50 Rat: 1000 mg/l 8 hours
Acute Oral LD50 Mouse: 1580 mg/kg
Acute Oral LD50 Rabbit: 1940 mg/kg
Acute Oral LD50 Rat: 1230-3100 mg/kg
Acute Other LD50 Guinea Pig: > 400 mg/kg
Acute Other LD50 Mouse: 324 mg/kg
Acute Other LD50 Rat: 53 mg/kg

SECTION 3: FIRST AID MEASURES

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EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

SKIN CONTACT: Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

INHALATION: Move to fresh air, oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

INGESTION: Rinse mouth thoroughly. DO NOT induce vomiting without advice from a poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. **IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician.

NOTES TO PHYSICIAN: In case of shortness of breath, give oxygen. Keep victim warm.

GENERAL ADVICE: Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 4: FIRE-FIGHTING MEASURES

BOILING POINT: Not available **SPECIFIC GRAVITY:** 0.95
MELT/ FREEZE PT.: 4.6°F (-15.2°C) **VAPOR PRESSURE:** 0.102588783 hPa estimated
VAPOR DENSITY: Not available **SOLUBILITY IN WATER:** partial
DENSITY: 0.186672465 g/cm3 estimated **AUTO IGNITION TEMPERATURE:** Not available
RELATIVE DENSITY: Not available **pH:** Alkaline

APPEARANCE AND ODOR: Liquid form and appearance, Golden to light amber color, Amine-like ammoniacal odor. (odor threshold is not available)

OTHER DATA:

FLAMMABILITY CLASS: Combustible IIIA estimated

FIRE AND EXPLOSION DATA

FLASH POINT: 199.4°F (93°C) estimated

SPECIAL HAZARD DESIGNATIONS

H.M.I.S. RATING	NFPA	KEY
HEALTH: 2	HEALTH: 2	0-MINIMAL
FLAMMABILITY: 1	FLAMMABILITY: 1	1-SLIGHT
PHYSICAL HAZARD: 0	INSTABILITY: 0	2-MODERATE
PROTECTION:	SPECIAL:	3-SERIOUS

FLAMMABLE LIMITS IN AIR, % BY VOLUME UEL UPPER: N/A **LEL LOWER:** N/A

EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire. Use water, dry powder, carbon dioxide (CO2), alcohol foam

SPECIAL FIREFIGHTING PROCEDURES: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and, in enclosed spaces, SCBA. Structural firefighters protective clothing will provide limited protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible by OSHA criteria. NFPA Rating Fire = 1. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur. Heat may cause the containers to explode. Runoff to sewer to may cause fire or explosion hazard. In case of fire and/or explosion, do not breathe fumes. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. In the event of fire and/or explosion, do not breathe fumes. in the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Fire may produce irritating, corrosive and/or toxic gases. Hazardous combustion products may include oxides of sulfur.

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SECTION 5: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Use care in handling/storage. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid breathing dust/fumes/gas/mist/vapors/spray. Do not get this material on clothing. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release into the environment. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic build-up by using common bonding and grounding techniques. Store in well ventilated place. Keep container tightly closed. Keep out of the reach of children.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of leak/spill. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent further leakage or spillage if safe to do so. Do not contaminate water. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

FOR LARGE SPILLS: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Never return spills to the original container for re-use.

FOR SMALL SPILLS: Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Absorb spill with vermiculite or other inert material.

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

SECTION 6: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION :

LOCAL: N/A

SPECIAL: N/A

MECHANICAL: N/A

OTHER: N/A

RESPIRATORY PROTECTION: Do not breathe dust/fumes/gas/mist/vapors/spray. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

EYE/FACE PROTECTION: Do not get in eyes. Chemical goggles are recommended. Face-shield.

SKIN PROTECTION: Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Chemical resistant gloves. Chemical/solvent resistant gloves are recommended. If contact with forearms is likely, use gauntlet-style gloves.

WORK HYGIENIC PRACTICES: Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. When using, do not eat, drink or smoke. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

OTHER:

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

US. ACGIH Threshold Limit Values

Components	Type	Value
ETHYLENEDIAMINE (107-15-3)	TWA	10ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
ETHYLENEDIAMINE (107-15-3)	PEL	25 mg/m3 10ppm

SECTION 7: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperature conditions.

CONDITIONS TO AVOID: Heat, flames and sparks. Contact with incompatible materials.

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MATERIALS TO AVOID: Peroxides. Strong acids, alkalies and oxidizing agents. Fluorine. Chlorine.

HAZARDOUS DECOMPOSITIONS OR BY-PRODUCTS: If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

SECTION 8: DISPOSAL CONSIDERATIONS

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

SECTION 9: OTHER INFORMATION

HAZARDOUS COMPONENTS

	CAS#	Percent
BENZYL ALCOHOL	100-51-6	0 - 20
TRIETHYLENETETRAMINE	112-24-3	1 - 6

NON-HAZARDOUS COMPONENTS

	CAS#	Percent
POLYAMIDE RESIN	Mixture	25 - 45
POLYAMIDOAMINE	Mixture	20 - 35
ALKYLATED PHENOLIC POLYAMINE	68413-28-5	0 - 6
MIXED CYCLOALIPHATIC AMINES	Mixture	0 - 6
3-AMINOPROPYLTRIETHOXSILANE	919-30-2	0 - 3
ETHYLENEDIAMINE	107-15-3	0 - 1

ECOLOGY

ECO-TOXICOLOGICAL DATA:

COMPONENT	TEST RESULTS
VEN500 PART B	LC50 Fish: 991.024 mg/l 96 hours estimated
BENZYL ALCOHOL (100-51-6)	LC50 Bluegill (<i>Lepomis macrochirus</i>): 10 mg/l 96 hours

*Estimates for product may be based on additional component data not shown.

ECO-TOXICITY - Contains a substance which causes risk of hazardous effects to the environment. It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

ENVIRONMENT EFFECTS - May cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

AQUATIC TOXICITY - It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

Persistence and degradability not available

TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods

REGULATORY INFORMATION

US Federal Regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))	Not regulated
DEA Essential Chemical Code Number	Not regulated
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12 (c))	Not regulated
DEA Exempt Chemical Mixtures Code Number	Not regulated
CERCLA (Superfund) reportable quantity	None

Superfund Amendments & Reauthorization Act of 1986 (SARA)

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Hazard Categories

Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No
Section 302 Extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Clean Water Act (CWA) Hazardous substance

INVENTORY STATUS

COUNTRY OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO*)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substance Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

STATE REGULATIONS

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - New Jersey RTK - Substances: Listed substance	
TRIETHYLENETETRAMINE (CAS 112-24-3)	Listed
US - Pennsylvania RTK - Hazardous Substances: Listed substances	
BENZYL ALCOHOL (CAS 100-51-6)	Listed
TRIETHYLENETETRAMINE (CAS 112-24-3)	Listed

DISCLAIMER:

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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