



# Safety Data Sheet

JP SPECIALTIES, INC.

## Section 1. Identification

**GHS product identifier** :Earth Shield® VEN 1000 Epoxy Part A

**Other means of identification** Bonding Epoxy Resin

### **Relevant identified uses of the substance or mixture and uses advised against**

Not available


**Supplier's details** : J P Specialties, Inc.  
25811 Jefferson Avenue  
Murrieta, CA 92562  
Tel.: 1-800-821-3859  
Fax: 1-951-763-7074  
Website URL: [www.jp-specialties.com](http://www.jp-specialties.com)

**Emergency telephone number (with hours of operation)** : 1-951-763-7077  
(7am to 3:30pm EST)



# Safety Data Sheet

## Section 2. Hazards Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Sensitization skin	Category 1B
	Carcinogenicity	Category 2
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b><u>GHS label elements</u></b>		
<b>Signal word</b>	Warning	
<b>Hazard statements</b>	Suspected of causing cancer by ingestion. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.	
<b><u>Prevention</u></b>	: Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.	
<b><u>Response</u></b>	: Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. IF ON SK1N: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical advice/attention.	
<b>Storage</b>	: Store in accordance with local/regional/national regulations.	
<b>Disposal</b>	: Dispose of contents in accordance with local/regional/national/international regulations.	
<b>Hazards not otherwise classified</b>	: None known	
<b>Supplemental information</b>	: Not applicable	



# Safety Data Sheet

## Section 3. Composition/information on ingredients

**Substance/mixture** : Earth Shield® VEN1000 Part A

**Other means of identification** Bonding Epoxy Resin

**CAS number/other identifiers**

**Product code** ''

Ingredient name	CAS number	%
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4	30 - 50
ALUMINUM OXIDE	1344-28-1	10 - 20
1,3-DIGLYCIDYLOXYBENZENE	101-90-6	1 - 5
FUMED SILICA (SILOXANES AND SILICONES, DI-ME, REACTION PRODUCTS WITH SILICA	67762-90-7	1 - 5
Other components below reportable levels		20 - 40

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Composition comments** Other components in this product are considered non-hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).



# Safety Data Sheet

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing, Get medical attention immediately.
- Inhalation** : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. 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 needed.
- Skin contact** : Remove contaminated clothing immediately and wash skin with soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. For minor skin contact, avoid spreading material on unaffected skin. Take off contaminated clothing and wash before reuse.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that the 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.

### Most important symptoms/effects, acute and delayed

- : Skin irritation. May cause an allergic skin reaction. Dermatitis, Rash. Irritant effects. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Indication of immediate medical attention and

- special treatment needed** : Provide general supportive measure and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

### General information

- : Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.



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## Section 5. Firefighting measures

### Extinguishing media

**Suitable extinguishing media** : Water fog. Foam. Dry chemical. Alcohol foam. Carbon Dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media** : Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** : Fire may produce irritating, corrosive and/or toxic gases.

**Special protective equipment and precautions for firefighters.** : Wear suitable protective equipment. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire-fighting equipment/instructions** : Move containers from the 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. Water runoff can cause environmental damage.

**Specific methods** : In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

**General fire hazards** : No unusual fire or explosion hazards noted.



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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from the up wind of spill/leak. Keep out of low areas. No action shall be taken involving any personal risk or without suitable training.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

Wear appropriate protective equipment and clothing during clean-up. Avoid skin contact and inhalation of vapors during disposal of spills. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, See Section 8 of SDS.

**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground  
Avoid release to the environment

### Methods and materials for contaminant and cleaning up

**Spill** : Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined ares. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination

Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS



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## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment (See Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and faces before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : CAUTION: Store locked up. Keep away from heat, sparks, and open flame. Store in a closed container away from incompatible materials. Store in well-ventilated place. Store away from incompatible materials (see Section 10 of SDS). Keep away from food, drink, and animal feeding stuffs. Keep out of the reach of children. Store in accordance with local/regional/national/international regulation.

## Section 8. Exposure Controls / Personal Protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Type	Value	Form
ALUMINUM OXIDE (CAS 1344-28-1)	PEL	5 mg/m3 15 mg/m3	Respirable Fraction Total dust
US.ACGIH Limit Values			
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).		
<b>Appropriate engineering controls</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined defined occupational exposure limit is not exceeded.		
Individual protection measures such as personal protective equipment			
<b>Eye/ face protection</b>	Wear safety glasses; chemical goggles or face shield (if splashing is possible).		



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## Section 8. Exposure Controls / Personal Protection

<b>Hand Protection</b>	Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
<b>Other</b>	Wear suitable protective clothing to prevent any possible contact with skin.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9. Physical Properties

### Appearance

<b>Physical state</b>	: Liquid
<b>Form</b>	: Liquid
<b>Color</b>	: Not Available
<b>Odor</b>	: Not available
<b>Odor Threshold</b>	: Not available
<b>pH</b>	: 7 estimated
<b>Melting point . freezing point</b>	: Not available
<b>Initial boiling point and boiling range</b>	: >392°F (>200°C) estimated
<b>Flash point</b>	: >302.0°F (>150.0°C) estimated
<b>Evaporation rate</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower and upper explosive (flammable) limits</b>	





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## Section 9. Physical Properties

<b>Flammability limit-lower (%)</b>	: Not available
<b>Flammability limit-upper (%)</b>	: Not available
<b>Explosive limit-lower (%)</b>	: Not available
<b>Explosive limit-upper(%)</b>	: Not available
<b>Vapor pressure</b>	: 82 Pa at 20°C
<b>Vapor density</b>	: Not available
<b>Relative density</b>	: Not available
<b>Solubility in water</b>	: Not available
<b>Partition coefficient n-octanol/ water</b>	: >3
<b>Auto-ignition temperature</b>	: 572°F (300.0°C)
<b>Decomposition temperature</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Other information</b>	
<b>Density</b>	1170.00 kg/m3 at 25°C

## Section 10. Stability and Reactivity

<b>Reactivity</b>	: The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	: Stable.
<b>Possibility of hazardous reactions</b>	: No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	: Heat, flames, and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	: Peroxides. Chlorine. Strong acids, alkalis and oxidizing agents.
<b>Hazardous decomposition products</b>	: If product is burned, hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.



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## Section 11. Toxicological Information

### Information on likely routes of exposure

- Ingestion** : Suspected of causing cancer by ingestion. However, ingestion is not likely to be a primary route of occupational exposure.
- Inhalation** : Prolonged inhalation may be harmful.
- Skin contact** : Causes skin irritation.
- Eye contact** ; Causes eye irritation.
- Symptoms related to the physical, chemical and toxicological characteristics** : Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
1,3-DIGLYCIDYLOXYBENZENE (CAS 101-90-6)		
ACUTE ORAL LD50	MOUSE	980 mg/kg
	RABBIT	1240 mg/kg
	RAT	2.57 g/kg

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

- Skin corrosion / irritation** : Corrosion to skin and eyes.
- Serious eye damage / eye irritation** : Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

- Respiratory sensitization** : Not available.
- Skin sensitization** : May cause skin sensitization by skin contact.
- Germ cell mutagenicity** : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.



# Safety Data Sheet

## Section 11. Toxicological Information

**Carcinogenicity** Possible cancer hazard based on tests with laboratory animals. This product contains crystalline silica. Silica is a known carcinogen; however, in this encapsulated form the normal routes of exposure are unavailable.

### IARC Monographs, Overall Evaluation of Carcinogenicity

1,3-DIGLYCIDLOXYBENZENE (CAS 101-90-6)

2B Possibly carcinogenic to humans.

### US. National Toxicology Program (NTP Report on Carcinogens)

1,3-DIGLYCIDLOXYBENZENE (CAS 101-90-6)

Reasonably considered to be a carcinogen.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** : This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** : Not Classified.

**Specific target organ toxicity - repeated exposure** : Not Classified.

**Aspiration hazard** : Not available.

**Chronic effects** : Prolonged inhalation may be harmful.



# Safety Data Sheet

## Section 12. Ecological Information

**Ecotoxicity** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**VEN 1000 (CAS Mixture)**

**PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER(CAS 28064-14-4)**

Components	Species	Test results
Acute Fish	Fish	1 - 10 mg/l

**Persistence and degradability** : No data available.

**Biocumulative potential** : Not available

**Partition coefficient n-octanol / water (log Kow)**

**VEN 1000 Part A** >3

**Mobility in soil** : No data available.

**Other adverse effects** : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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## Section 13. Disposal Considerations

- Disposal Instructions** : When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.
- Local disposal regulations** : Dispose in accordance with all applicable regulations.
- Hazardous waste code** : The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Waste from residues / unused products** : Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging** : Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## Section 14. Transport Information

DOT Classification	IMDG	IATA
Not regulated as dangerous goods	Not regulated as dangerous goods	Not regulated as dangerous goods

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available

## Section 15. Regulatory Information

- U.S. Federal regulations** : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** : Not regulated.
- CERCLA Hazardous Substance List (40 CFR 302.4)** : Not listed
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** : Not listed



# Safety Data Sheet

## Section 15. Regulatory Information

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard Categories

- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not Listed

SARA 311/312 Hazardous Chemicals Yes

#### SARA 313 (TRI reporting)

Chemical Name	CAS number	%
ALUMINUM OXIDE	1344-28-1	10 - 20
1,3-DIGLYCIDYLOXTBENZENE	101-90-6	1 - 5

### Other Federal Regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act (SDWA)

Not regulated.

### US State Regulations

#### US. Massachusetts RTK - Substance List

1,3-DIGLYCIDYLOXTBENZENE (CAS 101-90-6)

ALUMINUM OXIDE (CAS 1344-28-1)



# Safety Data Sheet

## Section 15. Regulatory Information

### US. New Jersey Worker and Community Right-to-know Act

1,3-DIGLYCIDYLOXTBENZENE 500 LBS  
(CAS 101-90-6)

ALUMINUM OXIDE (CAS 1344-28-1) 500 LBS

### US. Pennsylvania RTK - Hazardous Substances

ALUMINUM OXIDE (CAS 1344-28-1)

### US. Rhode Island RTK

1,3-DIGLYCIDYLOXTBENZENE  
(CAS 101-90-6)

ALUMINUM OXIDE (CAS 1344-28-1)

### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US- California Proposition 65 - CRT: Listed date / Carcinogenic substances

1,3-DIGLYCIDYLOXTBENZENE  
(CAS 101-90-6)

Listed: July 1 1989



# Safety Data Sheet

## Section 15. Regulatory Information

### International Inventories

Country(s) 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 (IECSC)	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 Chemical List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine 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).  
 - A "No" indicates that one or more components of this product are not listed or exempt from listing on the inventory administered by the governing country(s).





# Safety Data Sheet

## Section 16. Other Information

### History

Date of issue mm/dd/yyyy : 11/11/2015

Version : 1

Revised sections : Not applicable

Prepared by J P Specialties, Inc.

**Key to abbreviations**

CERCLA - Comprehensive Environmental Response Compensation and Liability Act  
CWA - Clean Water Act  
DOT - Department of Transportation  
GHS - Globally Harmonized System  
HCS - Hazardous Communication Standard  
IATA - International Air Transport Association  
IBC - Intermediate Bulk Container  
IMDG - International Maritime Dangerous Goods  
LogPow - logarithm of the octanol/water partition coefficient  
MARPOL 73/78 - International Convention for the Prevention of Pollution From Ships 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OSHA - Occupational Safety & Health Administration  
PEL - Permissible Exposure Limit  
RCRA - Resource Conservation Recovery Act  
RTK - Right To Know  
SARA - Superfund Amendments & Reauthorization Act  
TSCA - Toxic Substances Control Agency  
TWA - Time Weighted Average  
UN - United Nations

**Revision Information** :

### Notice to reader

To the best of our knowledge, the information contained herein is believed to be accurate at the time of preparation and obtained from sources believed to be reliable. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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 readers specific process or application.



# Safety Data Sheet

## Section 1. Identification

**GHS product identifier** :Earth Shield® VEN 1000 Epoxy Part B

**Other means of identification** Bonding Epoxy Hardener

**Relevant identified uses of the substance or mixture and uses advised against**

Not available

**Supplier's details** : J P Specialties, Inc.  
25811 Jefferson Avenue  
Murrieta, CA 92562  
Tel.: 1-800-821-3859  
Fax: 1-951-763-7074  
Website URL: [www.jp-specialties.com](http://www.jp-specialties.com)

**Emergency telephone number (with hours of operation)** : 1-951-763-7077  
(7am to 3:30pm EST)



# Safety Data Sheet

## Section 2. Hazards Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, dermal	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**GHS label elements**



**Signal word** Warning

**Hazard Statement** Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

**Prevention** : Wear protective gloves. Wear eye/face protection. Avoid breathing mist or vapor. Avoid release to the environment. Wash thoroughly after handling. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workspace.

**Response** : Specific treatment see Section 4 of this SDS. IF exposed or concerned: Get medical advice/attention. IF ON SK1N: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash before reuse. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Collect spillage.

**Storage** : Store locked up.

**Disposal** : Dispose of contents in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified** : None known

**Supplemental information** : Not applicable



# Safety Data Sheet

## Section 3. Composition/information on ingredients

**Substance/mixture** : Earth Shield® VEN1000 Part B

**Other means of identification** : Bonding Epoxy Hardener

### CAS number/other identifiers

**Product code** : VEN1000

Ingredient name	CAS number	%
BENZYL ALCOHOL	100-51-6	25 - 45
4,4'-METHYLENEBIS(CYCLHEXYLAMINE)	1761-71-3	15 - 35
[(DIMETHYLAMINO)METHYL]PHENOL	25338-55-0	0 - 5
[3-(AMINOETHYL)PHENYL]METHANAMINE	1477-55-0	0 - 2
Other components below reportable levels		21.42

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison control center immediately.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Call a physician or poison control center immediately.
- Skin contact** : Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse. Wash clothing separately before reuse.



# Safety Data Sheet

## Section 4. First aid measures

**Ingestion** : Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. 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.

### **Most important symptoms/effects, acute and delayed**

: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

### **Indication of immediate medical attention and**

**special treatment needed** : Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### **General information**

: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this SDS to the doctor in attendance.



J P SPECIALTIES, INC.

# Safety Data Sheet

## Section 5. Firefighting Measures

### **Extinguishing media**

**Suitable extinguishing media** : Water fog. Foam. Alcohol foam. Dry chemical. Carbon Dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media** : Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** : Fire may produce irritating, corrosive an/or toxic gases.

**Special protective equipment and precautions for firefighters.** : Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing, and face mask.

**Fire-fighting equipment/instructions** : 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. Water runoff can cause environmental damage.

**Specific methods** : In the event of fire, cool tanks with water spray. Use spray to cool unopened containers.

**General fire hazards** : No unusual fire or explosion hazards noted.



# Safety Data Sheet

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away. Keep people away from upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."  
Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

**Environmental precautions** : Avoid discharge into drains, water courses or onto the ground.

### Methods and materials for contaminant and cleaning up

**Spill** : Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, dry sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS



# Safety Data Sheet

## Section 7. Handling and storage

- Precautions for safe handling** : Do not handle until all safety precaution have been read and understood. Do not get this material in contact with eyes. When using, do not eat or drink. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Use personal protective equipment as required. Do not get this material on clothing. Observe good industrial hygiene practices. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling.
- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and faces before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store locked up. Store away from incompatible materials (see Section 10 off SDS). Keep away from food, drink, and, animal feeding stuffs.





# Safety Data Sheet

J P SPECIALTIES, INC.

<b>Section 8. Exposure Controls / Protection Plan</b>			
Occupational exposure limits			
US.ACGIH Limit Values			
Components	Type	Value	Form
[3-AMINOETHYL) PHENYL]METHANAMINE (CAS 1477-55-0)	Ceiling	0.1 mg/m <sup>3</sup>	
US. NIOSH: Pocket guide to Chemical Hazards			
[3-AMINOETHYL) PHENYL]METHANAMINE (CAS 1477-55-0)	Ceiling	0.1 mg/m <sup>3</sup>	Inhalable fraction
US. IAHA Workplace Environmental Exposure Level (WEEL Guides)			
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44 mg/m <sup>3</sup> 10 ppm	

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined defined occupational exposure limit is not exceeded.
<b>Individual protection measures such as personal protective equipment</b>	
<b>Eye/ face protection</b>	Chemical goggles and face shield are recommended .
<b>Hand Protection</b>	Wear appropriate chemical resistant gloves.
<b>Skin Protection</b>	
<b>Other</b>	Skin protection should include disposable chemical resistant coveralls with hoods. Hand protection should include appropriate chemical resistant disposable gloves, such as nitrile rubber.
<b>Respiratory protection</b>	Respiratory protection should include at a minimum a full face air purifying respirator (APR) with combination particulate (P100) and organic vapor (OV) cartridges. A full-face APR has an assigned protection factor (APF) of 50, as designated by OSHA. As a substitute, a PAPR with a loose-fitting hood could be used as a respiratory protection
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.



# Safety Data Sheet

## Section 8. Exposure Controls / Protection Plan

### General hygiene considerations

Always observe good personal hygiene measures, such as washing immediately after handling the material and before breaks, eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Keep away from food and drink.

### EXPOSURE GUIDELINES

#### US - California OELs: SKIN DESIGNATION

[3-AMINOETHYL]PHENYL]METHANAMINE (CAS 1477-55-0) Can be absorbed through the skin

#### US - Tennessee OELs: SKIN DESIGNATION

[3-AMINOETHYL]PHENYL]METHANAMINE (CAS 1477-55-0) Can be absorbed through the skin

#### US ACGIH Threshold Limit Values: SKIN DESIGNATION

[3-AMINOETHYL]PHENYL]METHANAMINE (CAS 1477-55-0) Can be absorbed through the skin

#### US NIOSH Pocket Guide to Chemical Hazards: SKIN DESIGNATION

[3-AMINOETHYL]PHENYL]METHANAMINE (CAS 1477-55-0)



# Safety Data Sheet

## Section 9. Physical and Chemical Properties

### Appearance

<b>Physical state</b>	: Liquid
<b>Form</b>	: Liquid
<b>Color</b>	: Gold to light amber
<b>Odor</b>	: Amoniacle, Amine like.
<b>Odor Threshold</b>	: Not available
<b>pH</b>	: Alkaline
<b>Melting point . freezing point</b>	: Not available.
<b>Initial boiling point and boiling range</b>	: Not available.
<b>Flash point</b>	: 200°F (93.3°C )
<b>Evaporation rate</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower and upper explosive (flammable) limits</b>	
<b>Flammability limit-lower (%)</b>	: Not available
<b>Flammability limit-upper (%)</b>	: Not available
<b>Explosive limit-lower (%)</b>	: Not available
<b>Explosive limit-upper(%)</b>	: Not available
<b>Vapor pressure</b>	: Not available
<b>Vapor density</b>	: Not available
<b>Relative density</b>	: Not available
<b>Solubility in water</b>	: Partial
<b>Partition coefficient n-octanol/ water</b>	: Not available
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Specific Gravity</b>	: 0.95



# Safety Data Sheet

## Section 10. Stability and Reactivity

<b>Reactivity</b>	: The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	: Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: Hazardous polymerization can occur with elevated temperatures.
<b>Conditions to avoid</b>	: Avoid temperatures exceeding the flash point. Contact with incompatible materials
<b>Incompatible Materials</b>	: Acids. Alkaline metals. Amines. Peroxides. Fluorine. Chlorine. Phenols, Strong acids, alkalies, and oxidizing agents.
<b>Hazardous decomposition products</b>	: Toxic gas. If product is burned, hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced. Upon combustion, oxides of chlorine may be released.

## Section 11. Toxicological Information

### Information of likely routes of exposure

<b>Ingestion</b>	: Expected to be a low ingestion hazard.
<b>Inhalation</b>	: Prolonged inhalation may be harmful.
<b>Skin contact</b>	: Causes skin irritation. Harmful in contact with skin.
<b>Eye contact</b>	; Causes eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	: Irritation of eyes and mucous membranes.
<b>Skin corrosion / irritation</b>	: Irritating and may cause redness and pain.
<b>Serious eye damage / eye irritation</b>	: Direct contact with eyes may cause temporary irritation.



# Safety Data Sheet

## Section 11. Toxicological Information

### Respiratory or skin sensitization

**Respiratory sensitization** : Not available.

**Skin sensitization** : May cause skin sensitization by contact.

**Germ cell mutagenicity** : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** : This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** : Not Classified.

**Specific target organ toxicity - repeated exposure** : Not Classified.

**Aspiration hazard** : Not available.

**Chronic effects** : Prolonged inhalation may be harmful.



# Safety Data Sheet

## Section 11. Toxicological Information

### Acute toxicity

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
<b>VEN 1000 Part B (CAS Mixture)</b>		
Dermal LD50	Rabbit	3535.3179 mg/kg estimated
Inhalation LC50	Rat	1767.6589 mg/l, 8 Hours estimated
Oral LD50	Mouse	2792.9011 mg/kg estimated
	Rabbit	3429,2583 mg/kg estimated
	Rat	1083.3147 mg/kg estimated
Other LD50	Mouse	1679.276 mg/kg estimated
	Rat	555.0449 mg/kg estimated

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
<b>4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) (CAS 1761-71-3)</b>		
Acute Oral LD50	Rat	380 mg/kg

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
<b>BENZYL ALCOHOL (CAS 100-51-6)</b>		
DERMAL LD50	Rabbit	2000 mg/kg
INHALATION LC50	Rat	1000 mg/l, 8 Hours
ORAL LD50	Mouse	1580 mg/kg
	Rabbit	1940 mg/kg
	Rat	1230 - 3100 mg/kg
Other LD50	Mouse	950 mg/kg
	Rat	314 mg/kg

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



# Safety Data Sheet

## Section 12. Ecological Information

**Ecotoxicity** : Harmful to aquatic life. Components of this product are hazardous to aquatic life. Accumulation in aquatic organisms is expected.

**VEN1000 part B (CAS Mixture)**

BENZYL ALCOHOL (CAS 100-51-6)

Product		Species	Test results
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	10 mg/l, 96 hour

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

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient  
n-octanol / water (log Kow)**

BENZYL ALCOHOL 1.1

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



# Safety Data Sheet

## Section 13. Disposal Considerations

- Disposal Instructions** : Dispose of contents/container in accordance with local/regional/national/international regulations. This product, in its present state, when discarded or disposed of, is not hazardous waste according to Federal regulations (40 CFR 26.4 )b) (4). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
- Local disposal regulations** : Dispose in accordance with all applicable regulations.
- Hazardous waste code** : The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Waste from residues / unused products** : Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging** : Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## Section 14. Transport Information

### DOT Classification

**UN number**

UN2735

**UN proper shipping name** Amine, Liquid, Corrosive, N.O.S.  
(3-AMINOETHYL)PHENYL]METHANAMINE)

### Transport hazard class(es)

**Class**

8

**Subsidiary risk**

-

**Packing group**

III

**Special precautions for user**

Read safety instructions, SDS and emergency procedures before handling.





# Safety Data Sheet

## Section 14. Transport Information

### IATA

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<b>UN number</b>	UN2735
<b>UN proper shipping name</b>	Amine, Liquid, Corrosive, N.O.S. ([3-AMINOETHYL]PHENYL]METHANAMINE)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### Other information

**Passenger and cargo aircraft** Forbidden.

**Cargo aircraft only**

### IMDG

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<b>UN number</b>	UN2735
<b>UN paper shipping name</b>	Amine, Liquid, Corrosive, N.O.S. ([3-AMINOETHYL]PHENYL]METHANAMINE)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.



J P SPECIALTIES, INC.

# Safety Data Sheet

## Section 14. Transport Information

DOT



IATA;IMDG



## Section 15. Regulatory Information

**U.S. Federal regulations** : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** : Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** : Not Listed

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** : Not listed

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard Categories** : Immediate Hazard - Yes  
: Delayed Hazard - No  
: Fire Hazard - No



# Safety Data Sheet

## Section 15. Regulatory Information

**SARA 302 Extremely hazardous substance** : Pressure Hazard - No  
: Reactivity Hazard - No  
: Not Listed  
**SARA 311/312 Hazardous chemical** : Yes  
**SARA 313 (TRI reporting)** : Not regulated

### Other Federal Regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** : Not regulated  
**Clean Air Act (CAA) Section 112 ® Accidental Release Prevention (40 CFR 68.130)** : Not regulated  
**Safe Drinking Water Act (SDWA)** : Not regulated

### US State Regulations

#### **US. Massachusetts RTK - Substance List**

([3-AMINOETHYL]PHENYL]METHANAMINE) (CAS 1477-55-0)  
BENZYL ALCOHOL (CAS 100-51-6)

#### **US. New Jersey Worker and Community Right-to-know Act**

Not regulated.

#### **US. Pennsylvania RTK - Hazardous Substances**

([3-AMINOETHYL]PHENYL]METHANAMINE) (CAS 1477-55-0)  
BENZYL ALCOHOL (CAS 100-51-6)

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.



# Safety Data Sheet

J P SPECIALTIES, INC.

## Section 15. Regulatory Information

### International Inventories

Country(s) 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 (IECSC)	Yes
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 Chemical List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine 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).  
- A "No" indicates that one or more components of this product are not listed or exempt from listing on the inventory administered by the governing country(s).



# Safety Data Sheet

## Section 16. Other Information

### History

**Date of issue mm/dd/yyyy** : 11/12/2015

**Version** : 1

**Revised sections** : Not applicable

**Prepared by** J P Specialties, Inc.

**Key to abbreviations**

- ACGIH - American Conference of Governmental Industrial Hygienists
- CERCLA - Comprehensive Environmental Response Compensation and Liability Act
- CWA - Clean Water Act
- DOT - Department of Transportation
- ENCS - Japan (Inventory of Chemicals and Chemical Substances)
- GHS - Globally Harmonized System
- HCS - Hazardous Communication Standard
- IATA - International Air Transport Association
- IBC - Intermediate Bulk Container
- IMDG - International Maritime Dangerous Goods
- LogPow - logarithm of the octanol/water partition coefficient
- MARPOL 73/78 - International Convention for the Prevention of Pollution From Ships 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NIOSH - National Institute of Occupational Safety and Health
- NTP - National Toxicology Program
- OEL - Over Exposure Limit
- OSHA - Occupational Safety & Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation Recovery Act
- RTK - Right To Know
- SARA - Superfund Amendments & Reauthorization Act
- TSCA - Toxic Substances Control Agency
- TWA - Time Weighted Average
- UN - United Nations

**Revision Information** :

**References** : EPA: AQUIRE database

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs, Overall Evaluation of Carcinogenicity



# Safety Data Sheet

National Toxicity Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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