



## Epoxy Joint Fill Part A

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EPOXY JOINT FILL PART A  
IDENTIFICATION NUMBER: 72829, 72829-2  
SUPPLIER/MANUFACTURER: VANBERG SPECIALIZED COATINGS  
10705 COTTONWOOD ST  
LENEXA, KS 66215-2032  
EMERGENCY PHONE NUMBER: 1-800-255-3924  
PREPARER: VSC  
PHONE: 913-599-5939  
PREPARE DATE: OCTOBER 5, 15

### SECTION 2 – HAZARDS IDENTIFICATION

**GHS Classification:** Serious eye damage/Eye irritation category 2A, Skin irritation category 2, skin sensitizer category 1, Toxic to reproduction category 2, Long term hazards to aquatic environment Category 2

**GHS Label Elements and Precautionary Statements:**

**Label Elements:** Exclamation Mark, Health Hazard, Aquatic Toxicity

**Hazard Statements:**

Warning: Causes serious eye irritation.

Warning: Causes skin irritation.

Warning: May cause an allergic skin reaction.

Warning: Suspected of damaging fertility of the unborn child.

Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P102 Keep out of reach of children.

P103 Read label before use

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

**Response**

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

**Storage:**

P405 Store locked up

**Disposal:**

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

### HMIS Hazard Classification

Health: 1      Flammability: 1      Reactivity: 0      Personal Protective Equipment: B

### Potential Health Effects

**Eyes:** may cause irritation but no corneal injury is likely.

**Skin:** may cause irritation or allergic skin response.

**Ingestion:** this material has a probable low acute oral toxicity.

**Inhalation:** no guide for control known, however, exposure to heated vapors can cause irritation to the nose, throat or mucous membranes.

**Health Hazards (Acute and Chronic):** epoxy resins can cause sensitization by exposure through contact or high concentration of vapor. Eyes: injury if unlikely but stain for evidence of corneal injury.

**Medical Conditions Generally Aggravated by Exposure:** respiratory conditions or other allergic ailments.

### Carcinogenicity

OSHA: NO

NTP: YES

IARC: YES

### Additional Carcinogenicity Information:

crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT%
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	none	none	none	7-13
Alkyl Glycidyl Ether	68609-97-2	none	none	none	1-5
Alkyl Phenol	84852-15-3	none	none	none	30-60
Alkyl Phenol Blocked Isocyanate	NJTSRN(31765300002) - 6184P	none	none	none	1-5
Cellulose	9004-34-6	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	none	0.1-1
Kaolin	1332-58-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	none	7-13
Talc	14807-96-6	20 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>	0.1-1
*Crystalline Silica (as a component of Talc)	14808-60-7	10 mg/m <sup>3</sup>	.1 mg/m <sup>3</sup>	.1 mg/m <sup>3</sup>	<1.0
Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	1-5

**Section 3 Notes:** '\*\*' indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

**Note:** Ingredients listed without percentages, the percentages are considered a trade secret.

## SECTION 4 – FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least fifteen minutes and consult a physician.

**Skin:** Skin contact will normally cause no more than irritation but wash affected area with soap and water and remove contaminated clothing promptly.

**Ingestion:** Low in toxicity, induce vomiting only if large amounts of material are ingested, and otherwise do not induce vomiting. In either case consult with a physician.

**Inhalation:** Remove victim to fresh air area and administer oxygen if necessary.

## SECTION 5 – FIRE FIGHTING MEASURES

**Flammable Limits in Air (% by volume):**

**Upper:** not available

**Lower:** not available

**Flash Pt:** 200 F (93 C)

**Method Used:** Seta Flash

**Extinguishing Media:**

Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.

**Special Fire Fighting Procedures:**

Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water.

**Unusual Fire and Explosion Hazards:**

None known.

**SECTION 6 – RELEASE MEASURES****Steps to Be Taken in Case Material Is Released or Spilled**

Wear respirator and protective clothing. Shut off the source at the leak. Remove excess with vacuum truck and take up the remainder with an absorbent such as clay and place in disposal containers. Flush area with water to remove residue.

**SECTION 7 – HANDLING AND STORAGE****Precautions to Be Taken in Handling and Storage:**

Store in a cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the SDS's of all the components prior to using material. Properly label all containers.

**Other Precautions:**

Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles can not be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION****Respiratory Protection:**

Use a NIOSH approved respirator as required to prevent over exposure to vapor in accordance with 29 CFR 1910.134. General exhaust is usually sufficient in lieu of NIOSH respirator.

**Ventilation:**

General exhaust is usually sufficient to control vapors and exposure hazards.

**Protective Gloves:**

Impervious gloves – neoprene or rubber.

**Eye Protection:**

Splash goggles or glasses with side shields.

**Other Protective Clothing or Equipment:**

Wear body covering clothing and other coverings as necessary such as an apron and appropriate footwear to avoid contact with material.

**Work Hygienic Practices:**

Observe good general hygienic practices.

**Note:** Ingredients listed without percentages, the percentages are considered a trade secret.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and Odor:** Medium viscosity liquid in varying colors.

**Boiling Point or Range:** 200 F (93 C)

**Vapor Density (Air = 1):** not available

**Specific Gravity (H<sub>2</sub>O = 1):** 1.2

**Evaporation Rate:** not available

**Solubility in Water:** negligible

**Odor Threshold:** N/A

**pH:** N/A

**Melting point/freezing point:** N/A

**Vapor Pressure:** N/A

**Auto Ignition Temperature:** N/A  
**Partition Coefficient: n-octanol/water:** N/A  
**Decomposition Temperature:** N/A

## SECTION 10 – STABILITY AND REACTIVITY

### **Stability:**

Stable

### **Conditions to Avoid (Stability):**

Avoid excessive heat or open flames.

### **Incompatibility (Material to Avoid):**

Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids.

### **Hazardous Decomposition or By-Products:**

CO<sub>2</sub>, aldehydes, acids. Reaction with some curing agents can generate large amounts of heat.

### **Hazardous Polymerization:**

Will not occur.

## SECTION 11 – Toxicological Information

**No data for the product itself.**

### **Component data:**

**Component CAS# 25068-38-6:** Moderate sensitizer, slight eye irritant, moderate skin irritant, Oral LD50 >5000 mg/kg (rat), Dermal LD50 >6000 mg/kg (rabbit)

**Component CAS# 68609-97-2:** possible sensitizer, eye and skin irritant, Oral LD50 >10000 mg/kg (rat), Inhalation LD50 – no microscopic changes

**Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN (31765300002) - 6184P:** Acute Oral toxicity LD50 >5000 mg/kg. Skin Irritation: exposure time 4hr – no skin irritation. Eye irritation: slightly irritating (rabbit). Mutagenicity: Genetic Toxicity in vitro: Ames – negative (salmonella typhimurium).

**Components Alkyl Phenol CAS# 84852-15-3:** Acute Oral Toxicity LD5: 1,300 mg/kg (rat) Acute Dermal Toxicity LD50: 2031 mg/kg (rabbit). Skin Irritation: rabbit, OECD test guideline 404, corrosive. Eye Irritation: rabbit, OECD test guideline 405, irritating to eyes. Sensitization: Dermal, not sensitizer (guinea pig, maximization test. Repeated Dose Toxicity: 28 day, oral, NOAEL, 100mg/kg (rat, male/female, daily). Mutagenicity: Genetic toxicity in vitro, Ames – negative results were reported in various in vitro studies (salmonella typhimurium, Metabolic Activation; with/without). Genetic Oxicity in vitro: Micronucleus Assay: negative (mouse, male/female, oral). Toxicity to Reproduction/Fertility: Three generation study, oral, (rat male/female) NOAEL (parental): 200 ppm, NOAEL (F1) 200 ppm NOAEL (F2): 200 ppm. Reproductive effects have been shown in animal studies. Developmental Toxicity/Teratogenicity: rat, female, oral, gestation, daily, NOAEL (teratogenicity) 300 mg/kg. NOAEL (maternal) 75 mg/kg, no teratonic effects observed at doses tested. No fetotoxicity observed at doses tested.

**Component s) Cellulose CAS# 9004-34-6 and Kaolin CAS# 1332-58-7:** This product and its components are not listed on the IARC, NTP, or OSHA carcinogens lists. There are no known cases of carcinogenesis from cellulose materials such as this component, and if used in a manner such that airborne concentrations are no greater than 10 mg/m<sup>3</sup> (milligrams per cubic meter) or 30 mppcf (million particles per cubic foot) no long term health effects will occur.

**Component CAS# 14807-96-6:** Carcinogenic effects – this component may contain crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen

**Component Titanium Dioxide:** Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

**Eye irritation:**Not expected to be an eye irritant. (Based on components). Skin Sensitization: Not expected to cause sensitization. (based on known component information). Subchronic Toxicity: Information on: Benzotriazole Derivative, Branched Ester In a 14-day study, rats were administered the active ingredient at 0, 10, 100, or 1,000 mg/kg by gavage. The 100 and 1,000 mg/kg dose levels were found to cause elevated serum liver enzyme levels and enlarged livers. The no observable effect level (NOEL) was 10 mg/kg. In a 28-day study, rats were administered the active ingredient at 0, 2, 50, and 500 mg/kg by gavage. No treatment-related clinical or neurological signs of toxicity or mortalities were recorded. Treatment-related effects, including mild anemia and toxic effects in the liver, were seen. Slight activity of the thyroid gland was also recorded and considered a secondary response to the effects in the liver. The no observable effect level (NOEL) was 2 mg/kg. Information on: Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidiny) ester, reaction products with tert-Bu hydroperoxide and octane in a 28-day study, rats were administered daily oral

doses of 10, 100 or 1000 mg/kg/day. Males only in the 1000 mg/kg dose group exhibited a reversible, minor effect on prothrombin time, as well as effects on

The formation and development of blood cells in the liver that were not totally reversed by the two-week recovery period. The no observable effect level (NOEL) was determined as 100 mg/kg in the males and 1000 mg/kg in the females. piperidiny) ester, reaction products with tert-Bu hydroperoxide and octane Information on: Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidiny)ester, reaction products with tert-Bu hydroperoxide and octane. Genetic toxicity: Non-mutagenic (based on composition).

## SECTION 12 – ECOLOGICAL INFORMATION

**No data for the product itself.**

**Component data:**

**Component CAS# 25068-38-6:** Biodegradability (Modified Sturm Method) 12%, Fish toxicity: Rainbow trout (96hr) LC50 1.5mg/l, Zebra Fish (96hr) LC50 2.4 mg/l. Invertebrate Toxicity: Daphnia Toxicity (24hr) EC 50 3.6 mg/l

**Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN (31765300002) - 6184P:** Biodegradation: 0%, exposure time, 28 days – not readily biodegradable. Acute and Prolonged Toxicity to fish: LC0 > 10,000 mg/l (zebra fish, 96 hr). Toxicity to microorganisms: EC50 > 10,000 mg/l.

**Components Alkyl Phenol CAS# 84852-15-3:** Biodegradation: aerobic, 7%, exposure time, 28 days. Bioaccumulation: fathead minnow, exposure time 20 days, 271 BCF. Acute and Prolonged Toxicity to fish: LC50 = 0.31 mg/l (sheepshead minnow, 96 hr, LC50 0.135 mg/l fathead minnow, 96 hr. Toxicity to microorganisms: EC10 = 10-16 mg/l (Pseudomonas putida). Toxicity to aquatic plants: EC50: 1.3 mg/l, End point: Biomass (green algae, 72 hr)

**Component) s) Cellulose CAS# 9004-34-6 and Kaolin CAS# 1332-58-7:** These components are not known to have any adverse effect on the aquatic environment when properly disposed.

**Component CAS# 14807-96-6:** There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

**Component Titanium Dioxide:** Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

## SECTION 13 – WASTE DISPOSAL

**Waste Disposal Method**

Dispose of the material in a waste disposal site in accordance with local, state, and federal laws.

## SECTION 14 – TRANSPORT INFORMATION

**DOT:** Not regulated.

**IMO/IMDG:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS BISPHENOL A DIGLYCIDYL ETHER POLYMER), 9, PGIII, MARINE POLLUTANT

## SECTION 15 – REGULATORY INFORMATION

**No data for the product itself.**

**Component data:**

**Component CAS# 25068-38-6:** Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, WHMIS class D2B; Is on the New Jersey Right to Know list; is on the PA Right to Know List;

**Component CAS# 68609-97-2:** Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, Is on the New Jersey Right to Know list; is on the PA Right to Know List.

**Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN (31765300002) - 6184P:** OSHA hazcom standard rating: Hazardous. Components on the following states Right to know substance list: Massachusetts, New Jersey and Pennsylvania. Components are on the TSCA list

**Component) s) Cellulose CAS# 9004-34-6 and Kaolin CAS# 1332-58-7:** Not considered a hazardous material TSCA: Not applicable

**Component CAS# 14807-96-6 may contain** Crystalline Silica (Silicon Dioxide) which is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

**Component Titanium Dioxide:** Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated Chemical List.

Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN).

**SECTION 16 – OTHER INFORMATION**

**N/A = Not Available**

**See Section 1 for date of preparation**

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The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**END OF SDS**