

# **Safety Data Sheet**

# **SECTION 1: Product Identification**

Product Name:WoodEpox AProduct Class:Filled Epoxy CompoundsProduct Code:WE AProduct Type:Adhesive Epoxy Paste

**Recommended Use:** Epoxy paste filler used to repair and restore damaged or deteriorated wood.

Manufacturer/Supplier: Abatron Incorporated

5501 95th Ave., Kenosha WI, 53144

Phone: 262-653-2000 Email: info@abatron.com

**Telephone:** For 24 Hour Emergency Assistance

Call CHEMTREC (800) 424-9300 (USA)

1-703-527-3887 (International)

## **SECTION 2: Hazards Identification**

**Emergency Overview:** Warning. Irritant. Light, white paste/putty with almost no odor. Material may cause skin irritation and prolonged contact may lead to skin sensitization and allergic skin reaction. Material may cause eye irritation. Vapors from heated material may cause upper respiratory tract irritation. Material may be harmful if ingested in large amounts.

## **Hazard Pictograms**



## Signal Word

Warning

## **Hazard Statements**

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
Toxic to aquatic life
Toxic to aquatic life with long-lasting effects

## **Precautionary Statements**

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

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF eye irritation persists: Get medical advice/attention.

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

IF SKIN irritation or rash occurs: Get medical advice/attention.,

Wash contaminated clothing before reuse.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

# **SECTION 3: Composition/Information on Ingredients**

**Composition:** The exact composition is a trade secret. Proprietary epoxy and filler blend.

## **Hazardous Ingredients**

| Substance Name  | CAS Number | <b>Concentration (%)</b> | Hazard Classification   |
|---|------------|--------------------------|---|
| Reaction product: Bisphenol-A-<br>(Epichlorhydrin); epoxy resin | 25068-38-6 | 60-100%                  | Skin Irrit. 2 H315<br>Skin Sens. 1 H317<br>Eye Irrit. 2 H319                      |
|   |            |                          | Aquatic Acute 2 H401<br>Aquatic Chronic 2 H411                                    |
| 2,3-epoxypropyl o-tolyl ether                                   | 2210-79-9  | 1–10%                    | Skin Irrit. 2 H315<br>Skin Sens. 1 H317<br>Muta. 2 H341<br>Aquatic Chronic 2 H411 |
| Titanium Dioxide*   | 13463-67-7 | < 5%                     | Carc. 2 H351  |

<sup>\*</sup>Titanium Dioxide is considered a carcinogen as airborne, unbound particles of respirable size. The titanium dioxide in this product is bound and not airborne.

## **SECTION 4: First Aid Measures**

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes and check for and remove contacts. Hold eyelids apart to rinse entire eye surface. Seek medical attention if irritation persists. Continue washing if medical attention is not immediately available.

**Skin Contact:** Wipe off excess immediately and wash affected area with soap and water for at least 15 minutes. Remove contaminated clothing or shoes and seek medical attention if irritation persists. Continue washing if irritation persists.

**Inhalation:** If inhaled, remove victim to fresh air and consult medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained personnel only. If unconscious, place in recovery position and seek medical attention immediately.

**Ingestion:** Wash out mouth with small amounts of water and remove person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately. If unconscious, place in recovery position. Never give anything by mouth to an unconscious person.

**Primary Routes of Entry:** Eye and skin contact, breathing vapors.

# **SECTION 5: Fire-Fighting Measures**

Flash Point: >450 °F (>232 °C)

Method Used: ASTM D3278-96

Flammable Limits (STP In Air)

LFL/UFL: Not Determined

Suitable Extinguishing Media: Water fog, alcohol-resistant foam, CO<sub>2</sub> and dry chemicals

Unsuitable Extinguishing Media: None known

**Specific Hazards and Procedures:** Remove all persons from the vicinity. Burning material may generate large amounts of vapor and produce noxious and toxic fumes. Combustion and/or decomposition products include carbon oxides.

**Specific Fire Fighting Equipment:** Firefighters should wear a self-contained breathing apparatus and personal protective clothing.

**Hazardous Combustion Products:** Burning material may generate large amounts of vapor and produce noxious and toxic fumes. Combustion and/or decomposition products include carbon monoxide, carbon dioxide and halogenated compounds.

## **SECTION 6: Accidental Release Measures**

**Personal Protective Measures:** Provide adequate ventilation and keep all unnecessary and unprotected personnel from entering the area. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Wear an appropriate respirator when ventilation is inadequate. Use appropriate safety equipment before taking any action.

Methods and Material for Containment and Cleaning Up: Absorb spill with an inert material such as sand if necessary. Scrape up and place in appropriate waste disposal container. Remove residual resin with non-flammable solvent and flush contaminated area with hot water. Do not dump waste into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. All disposal methods must be compliant with all Federal, State, and local laws and regulations.

## **SECTION 7: Handling and Storage**

**Precautions for Safe Handling:** Wear safety glasses. Do not get in eyes, on skin or on clothing. Avoid any forms of ingestion. Do not breathe vapor. Use only with good ventilation or use suitable respiratory protection. Persons with a history of skin sensitization problems should avoid contact with any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage, Including Any Incompatibilities: Store in tightly sealed, original container in a cool, dry place protected from direct sunlight. Keep container sealed until use. Keep containers tightly closed when not in use. Store away from incompatible materials and food and drink. Use appropriate containment to avoid environmental contamination.

# **SECTION 8: Exposure Controls/Personal Protection**

## **Occupational Exposure Limits:**

OSHA PEL/TWA None available for formulated product. ACGIH TLV/TWA None available for formulated product.

| Chemical   | CAS#      | OSHA PEL<br>8-hr TWA (mg/m³) inhalable dust | ACGIH TLV 8-hr TWA (mg/m <sup>3</sup> )<br>total inhalable dust |
|------------|-----------|---|---|
| Titanium 1 | 3463-67-7 | 15  | 10  |
| dioxide    | -         | J   | LJ  |

**Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate vapor, process enclosures or local exhaust may be necessary.

## **Individual Protection Measures**

**Eye/Face Protection:** Use properly fitted safety glasses. If vapor exposure causes eye discomfort, a full-face respirator may be necessary.

**Skin Protection:** Wear protective clothing suitable to the conditions of use. Clean, body-covering clothing and protective gloves should be worn at all times when handling the product.

**Respiratory Protection:** If local exhaust ventilation is inadequate, use a properly fitted, air-purifying mask suitable to the level of anticipated exposure.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

## **SECTION 9: Physical and Chemical Properties**

**Physical State:** White, light-weight thixotropic paste **Odor:** 

**Odor Threshold:** Not Determined

Melting Point/Freezing Point: Not Determined

Flash Point: >450 °F (>232 °C) Flammability: Non-flammable Vapor Pressure: Not Determined

**Relative Density (water = 1):**  $0.4 - 0.6 @ 25^{\circ}C$ 

Partition Coefficient: Not Determined

**Decomposition Temperature:** Not Determined

**Explosive Properties:** None

Odor: Faint odor **pH:** Not Applicable

**Boiling Point:** Not Applicable **Evaporation Rate:** Not Determined

Explosive Limits: Not Determined Vapor Density (air = 1): Not Applicable

Solubility in Water: None

**Auto-Ignition Temp.:** Not Determined

Viscosity: Not Applicable Oxidizing Properties: None

## **SECTION 10: Stability and Reactivity**

**Reactivity:** Product reacts exothermically with amine and amide-based curing agents. Product by itself is stable and relatively non-reactive under normal conditions of use, storage and shipping.

**Chemical Stability:** Product is stable under normal conditions. Prolonged excessive heat may cause partial degradation.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Avoid contact with incompatible materials. Avoid excessive heat. Store between 60-90°F.

**Incompatible Material:** Avoid contact with strong acids or bases in bulk and strong oxidizing materials. Avoid bulk contact with amines, amides and other curing agents. Material reacts with considerable heat release with some curing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, acrid smoke and fumes

**Hazardous Polymerization:** Will not occur by itself, but hazardous polymerizations may occur with aliphatic amines in masses greater than one pound with considerable heat buildup.

# **SECTION 11: Toxicological Information**

**Acute Toxicity:** The formulated product is not considered to be acutely toxic.

| Component   | Oral LD50       | Dermal LD 50         | Inhalation LC 50     |
|---|-----------------|----------------------|----------------------|
| Reaction product: Bisphenol-<br>A-(Epichlorhydrin); epoxy | 11.4 g/kg (rat) | >20g/kg (rabbit)     | -                    |
| resin O-Cresyl Glycidyl Ether                             | 5.8 g/kg (rat)  | >2000 mg/kg (rabbit) | 1220 ppm (rat, 4 hr) |

**Skin Corrosion/Irritation:** The formulated product is considered a moderate skin irritant.

| Component                      | Species | Skin Exposure   | Observation        |
|--------------------------------|---------|-----------------|--------------------|
| Reaction product: Bisphenol-A- | Rabbit  | 100 mg          | Mild Irritant      |
| (Epichlorhydrin); epoxy resin  | Rabbit  | 100 mg          | Wind Hittain       |
| Reaction product: Bisphenol-A- | Rabbit  | 20 mg 24 hours  | Moderate Irritant  |
| (Epichlorhydrin); epoxy resin  | Kabbit  | 20 mg, 24 hours | Wioderate IIIItani |

Serious Eye Damage/Irritation: The formulated product is considered a severe eye irritant.

| Component                      | Species | Eye Exposure     | Observation       |
|--------------------------------|---------|------------------|-------------------|
| Reaction product: Bisphenol-A- | Rabbit  | 500 μl, 24 hours | Moderate Irritant |

| (Epichlorhydrin); epoxy resin    | !      | ı              |                 |
|----------------------------------|--------|----------------|-----------------|
| Reaction product: Bisphenol-A-   |        |                |                 |
| reaction product. Displiction-A- | 5 11.  |                |                 |
| (Epichlorhydrin); epoxy resin    | Rabbit | 2 mg, 24 hours | Severe Irritant |

**Respiratory or Skin Sensitization:** Sensitization is possible through skin contact.

**Germ Cell Mutagenicity:** Component 2,3-epoxypropyl o-tolyl ether, CAS # 2210-79-9, is a suspect mutagen.

## **Carcinogenicity:**

| Chemical         | CAS#       | Concentration | IARC | NTP | OSHA | ACGIH | 1 |
|------------------|------------|---------------|------|-----|------|-------|---|
| Titanium dioxide | 13463-67-7 | 1 – 5 %       | 2B   | Yes |      |       |   |

**IARC Category 2B:** Component titanium dioxide is a possible carcinogen

**California Proposition 65:** For titanium dioxide only airborne, unbound particles of respirable size are listed as known carcinogens. Titanium dioxide is in the bound state in this product.

Reproductive Toxicity: Not available

## **STOT-Single Exposure**

| Component   | Category | Target Organ                 |
|---|----------|------------------------------|
| Reaction product: Bisphenol-<br>A-(Epichlorhydrin); epoxy | 3        | Respiratory tract irritation |
| resin O-Cresyl Glycidyl Ether                             | 3        | Respiratory tract irritation |
| O-Cresyl Glycidyl Ether                                   | 2        | Eyes                         |

## **STOT-Repeat Exposure**

| Component  | Category | Target Organ                 |
|--|----------|------------------------------|
| Reaction product: Bisphenol-A- (Epichlorhydrin); epoxy resin | 3        | Respiratory tract irritation |
| O-Cresyl Glycidyl Ether                                      | 1        | Skin, Respiratory tract      |
| O-Cresyl Glycidyl Ether                                      | 2        | blood stream, CNS            |

Routes of Exposure: Skin contact, eye contact, vapor inhalation.

**Primary Symptoms:** Material is a severe eye and skin irritant and moderate skin sensitizer. Prolonged exposure can cause dryness and cracking of the skin. Material vapor can be irritating to the respiratory and digestive tracts, and may be harmful if swallowed or inhaled in large amounts.

**Effects of Overexposure:** Overexposure to vapors can cause dizziness, headaches and other central nervous system effects.

## **SECTION 12: Ecological Information**

**Acute (short-term) toxicity:** The formulated product is moderately toxic to aquatic organisms on an acute basis.

Component: Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin

| Species                                       | Result           | Exposure                        |
|---|------------------|---------------------------------|
| Oncorhynchus mykiss (rainbow trout)           | LC50: 2 mg/L     | 96 hour; semi-static            |
| Daphnia magna (water flea)                    | EC50: 1.8 mg/L   | 72 hour; static                 |
| Scenedesmus capricornutum (fresh water algae) | ErC50: 11 mg/L   | 72 hour; growth rate inhibition |
| Bacteria                                      | IC50: >42.6 mg/L | 18 hour; respiration rates      |

**Chronic (long-term) toxicity:** The formulated product is moderately toxic to aquatic organisms on a chronic basis.

MATC (Maximum Acceptable Toxicant Level)

Component: Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin

| Species                    | Result    | Exposure                                 |
|----------------------------|-----------|--|
| Daphnia magna (water flea) | 0.55 mg/L | 21 day; semi-static; number of offspring |

**Persistence and Degradability:** The major component is not readily biodegradable.

Bioaccumulative potential: Not Available

Mobility in soil: Not Available

## **SECTION 13: Disposal Considerations**

Disposal considerations apply only to the product as shipped in its original container.

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer. The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Packaging Methods of Disposal:** The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special Precautions:** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal considerations apply only to the product as shipped in its original container.

## **SECTION 14: Transportation Information**

**US DOT:** Not regulated for transport

**UN Number:** Not Applicable

UN Proper Shipping Name:
Hazard Class:
Not Applicable
Packing Group:
Not Applicable
Marine Pollutant:
Not Applicable

In quantities not to exceed 5kg/5L per single or inner packaging, marine pollutants are not subject to regulation by ground, air, or vessel. See 49 CFR 171.4(c)(2).

## **SECTION 15: Regulatory Information**

**HCS Classification:** Irritating material, Sensitizing material

**TSCA Status:** All materials are either included on or exempt from the TSCA Inventory of Chemical Substances. This product does not contain any components subject to TSCA 12(b) export notification.

**Global Chemical Inventory Status:** All materials are either listed, compliant with or exempt from listing on the following global inventories:

| Country/Region | Inventory Name  | Listed? |
|----------------|---|---------|
| Australia      | Australian Inventory of Chemical Substances (AICS)                | Yes     |
| Canada         | Domestic Substances List (DSL)                                    | Yes     |
| China          | Inventory of Existing Chemical Substances in China (IECSC)        | Yes     |
| EU             | European List of Existing Commercial Chemical Substances (EINECS) | Yes     |
| EU             | European List on Notified Chemical Substances (ELINCS)            | No      |
| Japan          | Inventory of Existing and New Chemical Substances (ENCS)          | Yes     |
| Korea          | Existing Chemicals List (ECL)                                     | Yes     |
| New Zealand    | New Zealand Inventory of Chemicals (NZIoC)                        | Yes     |
| Philippines    | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes     |
| USA            | Toxic Substances Control Act Inventory (TSCA)                     | Yes     |

**Other Regulations:** This product contains no Extremely Hazardous Substances, EPCRA Sec.311, Appendix A and B, or chemicals listed in EPCRA Sec. 313, Table II.

**California Proposition 65:** This product is not known to contain any chemicals known to the State of California to cause cancer or reproductive harm. For titanium dioxide, only airborne, unbound particles of respirable size are listed as known carcinogens. Titanium dioxide is in the bound state in this product.

# **SECTION 16: Other Information**

# **HMIS Rating**

The Hazardous Materials Identification System (HMIS) is a rating system with 0 representing a minimal risk or hazard and 4 representing a significant risk or hazard.

Health 2\*
Flammability 1
Physical Hazard 0

# **SDS History**

Version: 3.0

Revision Date: December 5, 2019
Previous Update: August 4, 2015
Creation Date: April 1, 2000

**Revision Notes:** 

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.



# **Safety Data Sheet**

## **SECTION 1: Product Identification**

**Product Name:** WoodEpox B **Product Class:** Formulated epoxy co-reactant

**Product Code:** WE B **Product Type:** Epoxy Curing Agent

Recommended Use: Epoxy resin paste hardener used to repair and restore damaged or deteriorated

wood.

**Manufacturer/Supplier:** Abatron, Inc.

5501 95th Ave., Kenosha WI 53144

Phone: 262-653-2000 Email: info@abatron.com

**Telephone:** For 24 Hour Emergency Assistance

Call CHEMTREC (800) 424-9300(USA)

1-703-527-3887 (International)

## **SECTION 2: Hazards Identification**

**Emergency Overview:** Warning. Irritant. Light, tan colored paste/putty with a slight ammonia odor. Material can cause skin irritation and prolonged contact may lead to skin sensitization and allergic skin reaction. Material may cause eye irritation. Vapors from heated material may cause upper respiratory tract irritation. Material may be harmful if ingested in large amounts.

# **Hazard Pictograms**





# Signal Word Warning Hazard Statements

Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Very toxic to aquatic life with long-lasting effects

# **Precautionary Statements**

Wash hands thoroughly after handling.

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

Avoid contact during pregnancy/while nursing.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

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

Wash contaminated clothing before reuse.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Avoid release to the environment. Collect spillage.

Dispose of contents/container to be specified in accordance with regulations.

# **SECTION 3: Composition/Information on Ingredients**

**Composition:** The exact composition is a trade secret. Amidoamine and filler blend.

Hazardous Ingredients

| Substance Name                    | CAS Number | Concentration (%) | Hazard Classification                          |
|-----------------------------------|------------|-------------------|--|
| Fatty acids, C18-unsatd., dimers, | 68082-29-1 | 20 – 60%          | Eye Dam. 1 H318                                |
| oligomeric reaction products      |            |                   | Skin Sens. 1 H317                              |
| with tall-oil fatty acids and     |            |                   | Skin Irrit. 2 H315                             |
| triethylenetetramine              |            |                   | Aquatic Chronic 2 H411                         |
| Phenol, 4-nonyl-, branched        | 84852-15-3 | 1–20%             | Aquatic Acute 1 H400<br>Aquatic Chronic 1 H410 |
|                                   |            |                   | Skin Corr. 1B H314                             |
|                                   |            |                   | Repr. 2 H361fd                                 |
|                                   |            |                   | Acute Tox. 4 H302                              |
| Triethylenetetramine,             | 26950-63-0 | 1–10%             | Skin Sens. 1 H317                              |
| propoxylated                      |            |                   | Skin Corr. 1B H314                             |
|                                   |            |                   | Eye Irrit. 2 H319                              |
|                                   |            |                   | Acute Tox. 4 H312                              |
|                                   |            |                   | Aquatic Chronic 3 H412                         |
| Triethylenetetramine              | 112-24-3   | 1–10%             | Eye Dam. 1 H318                                |
|                                   |            |                   | Skin Sens. 1 H317                              |
|                                   |            |                   | Skin Corr. 1B H314                             |
|                                   |            |                   | Acute Tox. 4 H302                              |
|                                   |            |                   | Acute Tox. 4 H312                              |
|                                   |            |                   | Aquatic Chronic 3 H412                         |
| Titanium Dioxide, rutile*         | 1317-80-2  | 1–5%              | Carc. 2 H351                                   |

\*Titanium Dioxide is considered a carcinogen as airborne, unbound particles of respirable size. The titanium dioxide in this product is bound and not airborne.

## **SECTION 4: First Aid Measures**

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes and check for and remove contacts. Do not delay. Hold eyelids apart to rinse entire eye surface. Seek medical attention if irritation persists. Continue washing if medical attention is not immediately available.

**Skin Contact:** Wipe off excess immediately and wash affected area with soap and water for at least 15 minutes. Remove contaminated clothing or shoes and seek medical attention if irritation persists. Continue washing if irritation persists.

**Inhalation:** If inhaled, remove victim to fresh air and consult medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained personnel only. If unconscious, place in recovery position and seek medical attention immediately.

**Ingestion:** Wash out mouth with small amounts of water and remove person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Prevent aspiration of vomit. Seek medical attention immediately. Turn victim's head to one side. If unconscious, place in recovery position. Never give anything by mouth to an unconscious person.

**Primary Routes of Entry:** Eye and skin contact, breathing vapors.

# **SECTION 5: Fire-Fighting Measures**

Flash Point: >450 °F (>232 °C)

Method Used: ASTM D3278-96

Flammable Limits (STP In Air)

LFL/UFL: Not Determined

**Suitable Extinguishing Media:** Water fog, alcohol-resistant foam, CO<sub>2</sub> and dry chemicals such as sand and powdered limestone

**Unsuitable Extinguishing Media:** None known

**Specific Hazards and Procedures:** Heated containers may burst. Ammonia gas may be liberated at high temperatures. Incomplete combustion may result in the formation of toxic nitrogen oxide compounds (NOx) and carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated. The material is toxic to aquatic life. Fire residues and water contaminated with this material must be contained and prevented from entering waterways, sewers or drains.

**Hazardous Combustion Products:** Burning material may generate ammonia gas and noxious and toxic fumes. Combustion and/or decomposition products include carbon monoxide and nitrogen oxides (NOx).

## **SECTION 6: Accidental Release Measures**

**Personal Protective Measures:** Provide adequate ventilation and avoid all personnel contact. Wear suitable protective clothing. Do not touch or walk through spilled material. Avoid breathing vapor or Page | 3

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mist. Wear an appropriate respirator when ventilation is inadequate. Use appropriate safety equipment before taking any action.

Methods and Material for Containment and Cleaning Up: Remove container from spill area and scrape up material and place in appropriate waste disposal container. Remove residual resin with non-flammable solvent and flush contaminated area with hot water. Do not dump waste into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. All disposal methods must be compliant with all Federal, State, and local laws and regulations.

## **SECTION 7: Handling and Storage**

Precautions for Safe Handling: Wear safety glasses. Do not combine this product with sodium nitrite or other nitrosating agents. Suspected cancer-causing nitrosamines could be formed. Avoid contact with acids, oxidizers, acrylates, alcohols, aldehydes, ketones and halogenated hydrocarbons. Avoid contact with metal such as copper, copper alloys, brass and bronze. Wear personal protection equipment including safety glasses. Do not get in eyes, on skin or on clothing. Avoid any forms of ingestion. Do not breathe vapor, mist or spray. Use only with good ventilation or use suitable respiratory protection. Persons with a history of skin sensitization problems should avoid contact with any process in which this product is used. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage, Including Any Incompatibilities: Store in tightly sealed, original container in a cool, dry and well-ventilated place protected from direct sunlight. Keep container sealed until use. Keep containers tightly closed when not in use. Store away from incompatible materials such as acids and food and drink. Use appropriate containment to avoid environmental contamination. Product may freeze with extended exposure to low temperatures. If this occurs, warm the product to  $100 - 140^{\circ}F$  (38 – 60°C) for one hour or longer and stir until limpid.

## **SECTION 8: Exposure Controls/Personal Protection**

## **Occupational Exposure Limits:**

OSHA PEL/TWA ACGIH

TLV/TWA

None available for formulated product.

None available for formulated product.

**Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate vapor, process enclosures or local exhaust may be necessary.

## **Individual Protection Measures**

**Eye/Face Protection:** Use properly fitted safety glasses. If vapor exposure causes eye discomfort, a full-face respirator may be necessary.

**Skin Protection:** Wear protective clothing suitable to the conditions of use. Clean, body-covering clothing and protective gloves should be worn at all times when handling the product.

**Respiratory Protection:** If local exhaust ventilation is inadequate, use a properly fitted, air-purifying mask suitable to the level of anticipated exposure.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

## **SECTION 9: Physical and Chemical Properties**

**Physical State:** Tan, light-weight thixotropic paste

**Odor Threshold:** Not Determined

Melting Point/Freezing Point: Not Determined

**Flash Point:**  $>450^{\circ}F$  (>232 °C) Flammability: Non-flammable Vapor Pressure: Not Applicable

Relative Density (water = 1):  $0.3 - 0.5@21^{\circ}$ C

Partition Coefficient: Not determined

**Decomposition Temperature:** Not Determined

**Explosive Properties:** None

**Auto-Ignition Temp.:** Not Determined

**pH:** Not Applicable

**Percent Volatiles by Volume: <0.1%** 

Viscosity: Not Applicable

**Odor:** Slight ammonia or amine

**Boiling Point:** Not Applicable

**Evaporation Rate:** Not Applicable

**Explosive Limits:** Not Determined

Vapor Density: Not Applicable

Solubility in Water: Negligible

# **SECTION 10: Stability and Reactivity**

**Reactivity:** Product reacts exothermically with epoxide resins. Product by itself is stable and relatively non-reactive under normal conditions of use, storage and shipping.

Chemical Stability: Product is stable under normal use and temperature conditions. Prolonged excessive heat may cause partial degradation.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: Avoid contact with incompatible materials. Avoid excessive heat. Store between  $60-90^{\circ}$  F.

**Incompatible Materials:** Avoid contact with metal such as copper, copper alloys, brass and bronze. Avoid bulk contact with epoxides. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Avoid contact with sodium hypochlorite, mineral acids, organic acids and any oxidizing agents. Reactions with peroxides may be violent with possibility of an explosion. Avoid nitrous acid and other nitrosating agents as contact with nitrogen containing materials can produce N-Nitrosamines.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, acrid smoke and fumes

Hazardous Polymerization: Will not occur by itself, but hazardous polymerizations may occur with aliphatic amines in masses greater than one pound with considerable heat buildup.

## **SECTION 11: Toxicological Information**

**Acute Toxicity:** The formulated product is not considered to be acutely toxic.

| Component            | Oral LD50      | Dermal LD 50       | Inhalation LC 50 |
|----------------------|----------------|--------------------|------------------|
| Triethylenetetramine | 2.5 g/kg (rat) | 550 mg/kg (rabbit) | -                |

**Skin Corrosion/Irritation:** The formulated product is considered a severe skin irritant. Brief contact may cause skin burns.

**Serious Eye Damage/Irritation:** The formulated product is considered a severe eye irritant. Exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision.

**Respiratory or Skin Sensitization:** Sensitization is possible through skin contact. Sensitization has occurred in lab animals after repeated exposures.

Germ Cell Mutagenicity: Not available

## **Carcinogenicity:**

| Chemical         | CAS#       | Concentration | IARC | NTP | OSHA | ACGIH |
|------------------|------------|---------------|------|-----|------|-------|
| Titanium dioxide | 13463-67-7 | 1–5%          | 2B   |     | Yes  |       |

**IARC Category 2B:** Component titanium dioxide is a possible carcinogen

**California Proposition 65:** For titanium dioxide only airborne, unbound particles of respirable size are listed as known carcinogens. Titanium dioxide is in the bound state in this product.

**Reproductive Toxicity:** The component Phenol, 4-nonyl-, branched, CAS # 84852-15-3, is suspected of damaging fertility or the unborn child

STOT-Single Exposure: Not Available

STOT-Repeat Exposure: Not Available

Routes of Exposure: Skin contact, eye contact, vapor inhalation.

**Primary Symptoms:** Material is a severe eye and skin irritant and moderate skin sensitizer. Prolonged exposure can cause dryness and cracking of the skin. Material vapor can be irritating to the respiratory and digestive tracts, and may be harmful if swallowed or inhaled in large amounts.

**Effects of Overexposure:** Overexposure to vapors can cause dizziness, headaches and other central nervous system effects.

## **SECTION 12: Ecological Information**

**Acute (short-term) toxicity:** The formulated product is toxic to aquatic organisms on an acute basis.

Component: triethylenetetramine (following OECD Test Guidelines 203, 202 and 201 as appropriate)

| Species                    | Result          | Exposure             |
|----------------------------|-----------------|----------------------|
| Pimephales promelas        | LC50: 495 mg/L  | 96 hour; semi-static |
| Daphnia magna (water flea) | EC50: 31.1 mg/L | 48 hour              |
| Freshwater algae           | IC50: 2.5 mg/L  | 72 hour              |

**Chronic** (**long-term**) **toxicity:** The formulated product may cause long-term effects in the aquatic environment.

**Persistence and Degradability:** No information for the product itself.

**Bioaccumulative potential:** Partition coefficient n-octanol /water (log Pow): Not Available

Mobility in soil: Not Available

## **SECTION 13: Disposal Considerations**

Disposal considerations apply only to the product as shipped in its original container.

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer. The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

# **SECTION 14: Transportation Information**

**US DOT:** Not regulated for transport

UN Number:

UN Proper Shipping Name:

Hazard Class:

Packing Group:

Marine Pollutant:

Not Applicable

Not Applicable

Not Applicable

In quantities not to exceed 5kg/5L per single or inner packaging, marine pollutants are not subject to regulation by ground, air, or vessel. See 49 CFR 171.4(c)(2).

## **SECTION 15: Regulatory Information**

**HCS Classification:** Irritating material, Sensitizing material

**TSCA Status:** All materials are either included on or exempt from the TSCA Inventory of Chemical Substances. This product does not contain any components subject to TSCA 12(b) export notification.

EPCRA Sec. 311/312 Chemicals: None.

## **EPCRA Sec. 313 Chemicals:**

|    | Chemical                | CAS#       | Concentration |
|----|-------------------------|------------|---------------|
| į. | 4-Nonylphenol, branched | 84852-15-3 | 15 – 20%      |

**Global Chemical Inventory Status:** All materials are either listed, compliant with or exempt from listing on the following global inventories:

| Country/Region | Inventory Name  | Listed? |
|----------------|---|---------|
| Australia      | Australian Inventory of Chemical Substances (AICS)                | Yes     |
| Canada         | Domestic Substances List (DSL)                                    | Yes     |
| China          | Inventory of Existing Chemical Substances in China (IECSC)        | Yes     |
| EU             | European List of Existing Commercial Chemical Substances (EINECS) | Yes     |
| Japan          | Inventory of Existing and New Chemical Substances (ENCS)          | No      |
| Korea          | Existing Chemicals List (ECL)                                     | Yes     |
| New Zealand    | New Zealand Inventory of Chemicals (NZIoC)                        | Yes     |
| Philippines    | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes     |
| USA            | Toxic Substances Control Act Inventory (TSCA)                     | Yes     |

## **SARA 313 List:**

**Other Regulations:** This product contains no Extremely Hazardous Substances, EPCRA Sec.311, Appendix A and B, or chemicals listed in EPCRA Sec. 313, Table II.

**California Proposition 65:** This product is not known to contain any chemicals known to the State of California to cause cancer or reproductive harm. For titanium dioxide, only airborne, unbound particles of respirable size are listed as known carcinogens. Titanium dioxide is in the bound state in this product.

# **SECTION 16: Other Information**

**HMIS Rating:** The Hazardous Materials Identification System (HMIS) is a rating system with 0 representing a minimal risk or hazard and 4 representing a significant risk or hazard.

Health 2\* Flammability 1 Physical Hazard 0

**SDS History:** 

Version: 3.0

Revision Date: December 6, 2019
Previous Update: August 4, 2015
Creation Date: April 1, 2000

**Revision Notes:** 

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