

MATERIAL SAFETY DATA SHEET

(OSHA 29 CFR 1910.1200)

Product: B-1 Rebar Coating & Bonding Agent™

SECTION 1: MANUFACTURER'S NAME

JE Tomes & Associates, Inc.
2513 West 140th Place
Blue Island, IL 60406
708-653-5100 phone
708-653-5101 facsimile



Emergency Telephone Number: N/A

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SECTION 2: PRODUCT INFORMATION

Product Name

B-1 Rebar Coating & Bonding Agent™

Code#

T417 / T418

SECTION 3: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:	CAS No.	%
Vinyl Acetate/Ethylene Copolymer:	24937-78-8	30-65
Water:	7732-18-5	30-50
Vinyl Acetate:	108-05-4	<0.3

The remaining components are trade secret.

OSHA (ACGIH) EXPOSURE LIMITS;

CAS #	TWA PPM	mg/m3	STEL ppm	mg/m3	CEILING PPM	mg/m3
24937-78-8	N/E	N/E	N/E	N/E	N/E	N/E
7732-18-5	N/E	N/E	N/E	N/E	N/E	N/E
108-05-04	10 (10)	30 (35)	20 (20)	60 (70)	N/E (N/E)	N/E (N/E)

N/E= Not established. All values in () are U.S. ACGIH (American Conf. Of Gov. Indust. Hygienists)-TLV;
All others are OSHA-PEL

SECTION 4: HEALTH HAZARDS

EMERGENCY OVERVIEW

HMIS HEALTH RATING: 1 FLAMMABILITY: 0 REACTIVITY: 0

Mobile Liquid, White, ODOR: Sweet

Mild respiratory tract irritant.

The product will only burn after the water it contains is driven off. For dry polymer use water or carbon dioxide.

Routes of Exposure

- Eye Contact
- Skin Contact
- Inhalation

Ingestion

Exposure Standards: No standards established for this product. See Section 3 for exposure standards on ingredients. The principal volatile component is water. Minor volatile components are identified in Section 3 "Ingredients". Minor volatile components will migrate into the container headspace. Levels in Excess of the TLV's or PEL's can accumulate in non-vented container Headspace. Open drums in a well ventilated space.

Health Hazards: Mild Respiratory tract irritation

Target Organs: none

Signs and Symptoms of Exposure (Acute effects): Inhalation of vapors may cause irritation in the respiratory tract.

Signs and Symptoms of Exposure (Possible Longer Terms Effects): No known effects

Medical Conditions Generally Aggravated by Exposure: Asthma

Irritation Effects Data: Not a primary skin irritant. Not a primary eye irritant.

Acute Toxicity Effects Data: No data

Other Acute Effects: No data

Chronic/Subchronic Data: This product may contain small amounts of vinyl acetate, vapors of which have been shown to cause tumors in the respiratory tract of laboratory Animals. There is no evidence that it has caused cancer in humans.

Although formaldehyde is a minor volatile component of this product, it is important to recognize that recent test results have shown formaldehyde to cause cancer in laboratory animals. Formaldehyde is readily detected due to its irritant properties. The odor detection level varies among different individuals between 0.2 to 1 ppm. In addition, acclimation will occur from repeated exposure but sensitivity returns following rest periods away from the atmospheres containing formaldehyde. Whether at risk exists at levels below the odor threshold has not been determined.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of Water for at least 15 minutes. Call a physician.

Skin Contact: Wash affected area with soap and water.

Inhalation: Move patient to fresh air. If breathing has stopped or is labored give Assisted respiration (e.g. mouth to mouth)

Ingestion: Small ingested amounts are not expected to produce adverse health effects. Larger quantities (>1 oz., 31.1 gm) should be recovered from the stomach by aspiration.

SECTION 6: FIRE AND EXPLOSION DATA

CHARACTERISTICS:

Flash Point: >100CC (>212F)

Flash Point Method(s) Closed Cup

Upper Explosion Limit (UEL): Not applicable

Lower Explosion Limit (LEL): Not applicable

Autoignition Temperature: Not applicable

Fire Hazard Classification (OSHA/NEPA)

Extinguishing Media: The product will only burn after the water it contains is driven off. For dry polymer use water or carbon dioxide.

Special Fire Fighting Procedures: When dried polymer burns, water (H₂O), Carbon Dioxide (CO₂), Carbon Monoxide (CO) and smoke are produced.

Unusual Fire and Explosion Hazards: No known unusual hazards in a fire/explosion situation.

SECTION 7: SPILL, LEAK AND WATER DISPOSAL INFORMATION

Containment Techniques; (Removal of ignition sources, diking etc) Construct a dike to prevent spreading. Ventilate the space involved.

Clean-up Procedures: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in a container or dumpster pending disposal.

Other Emergency Adiver: Spilled polymer emulsion is very slippery. Use care to avoid falls. Wear protective clothing, boots, gloves, and eye protection.

Water Disposal: For small quantities: (Less than 100 gallons) dilute 50-100 fold with water. Flush to industrial sewer with large amount of water. Advise Municipal sewer authority. Chemical and/or biological degradation is feasible. For large quantities, place in setting pond, and ferric chloride, alum or mineral acid (e.g. HCl, H₂SO₄) To reduce ph to 5-6 and mix slowly.

Personal Protection/Exposure Controls:**Eye Protection:** Splash-proof eye goggles.**Hand Protection:** Rubber Gloves**Respiratory Protection:** Not required under normal conditions.**Protective Clothing:** No specific recommendations.**Engineering Controls:** Maintain air concentrations in workspaces in accordance with standards outlined in Sections 3 and 4.**Work and Hygienic Practices:** Provide readily accessible eye wash stations. Safety shower.**Storage & Handling: Storage:** Keep in cool, dry ventilated storage and in closed containers. Avoid freezing temperatures during storage. Minimize contact with atmospheric air to prevent inoculation with microorganisms. In headspace ventilation is required, use humidified air to reduce skin formation and emulsion surface.**Handling:** Avoid breathing of vapors. Handle in well ventilated workspace.**SECTION 8: TYPICAL PHYSICAL AND CHEMICAL PROPERTIES****Physical Form:** Mobile Liquid**Color:** White**Odor:** Sweet**PH:** 3-9.5 (depends on product)**Solubility in Water:** miscible in all proportions**Vapor Pressure (mm Hg):** of water**Vapor Density (Air=1):** of water**Evaporation Rate (Butylacetate =1):** No data**Freezing Melting Point:** No data**Boiling Point:** 100c (212f)**Specific Gravity (Water =1):** 1.1**Viscosity (CPS):** No data**Molecular Weight:** No data**SECTION 9: TRANSPORTATION INFORMATION****Dot Non-Bulk Shipping Name:** Resin Compound **Keep liquid resin above freezing****IMO Shipping Data:** Resin Compound **Keep liquid resin above freezing****ICAO/IATA Shipping Data:** Chemicals, NOS (Vinyl Acetate/Ethylene Copolymer)**SECTION 10: U.S. FEDERAL REGULATIONS****Toxic Substance Control Act (TSCA):** All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.**OSHA Hazard Communication Standard (29FR1910.1200) Hazard Class(es):** None**EPA SARA Title III Section 312 (40CFR370) Hazard Class:** None**EPA SARA Title III Section 312 (40CFR370) Toxic Chemicals Above "deminimis" level:** None**SECTION 11: U.S. STATE REGULATIONS****Proposition 65 Substances component(s):** Known to the state of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"

50-00-0 Formaldehyde at no more than 0.05%

75-07-0 Acetaldehyde at no more than 0.05%

New Jersey Trade Secret Registry Number(S): None**SECTION 12: INTERNAL REGULATIONS****Canada:****DSL:** Not determined**WHMIS Hazard Classification:** None**WHMIS Trade Secret Registry Number(s):** None

WHMIS Hazardous Ingredients: None

European Economic Community (EEC):

EINICS Master Inventory: Not determined