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VERTIBOND MATERIAL SAFETY DATA SHEET

Date: March 25, 2002

Section I. Identification

Product Name: Vertibond Polymer Concentrate
Chemical Name: EVA Copolymer Emulsion
Chemical Family: Synthetic Latex
Chemical Formula: Mixture
Emergency Telephone Number: Chem-Trec 800-424-9300
Telephone Number for Information: 800-533-4702/(803) 955-0707
DOT Status: not regulated
HMIS Rating
Health: [1] Flammability: [0]
Reactivity: [0] Protection:

Section II. Composition/Ingredients

Composition	Weight	OSHA TWA	ACGIH TLV	CAS Number
Water	44-46	ne	ne	7732185
Ethylene-Vinyl Acetate Copolymer	53-55	ne	ne	24937788
Ethylene Glycol	1-3	100mg/m3	ne	107211
Vinyl Acetate	0.5-0.9	10ppm	15ppm	108054

Section III. Physical and Chemical Characteristics

Boiling Point: 212°F (100 deg C)
Vapor Pressure: (mm Hg @ 25°C) 24
Vapor Density (Air = 1): 1
Solubility in Water: dispersable
pH: 5-6
Specific Gravity (H2O = 1): 1.1
Melting Point: Not Determined
Evaporation Rate (Ether = 1): >1
Appearance and Odor: milky white, viscous , sweet odor

Section IV. Fire and Explosion Hazard

Flash Point (Method Used): na
Flammable Limits: **na**
Extinguishing Media: Water spray, dry chemical, alcohol foam, all purpose AFFF or carbon dioxide.

Special Fire Fighting Procedures: Product will not burn unless dried out. Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible. Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual Fire and Explosion Hazards: Fires involving this product may release carbon monoxide, carbon dioxide, reactive hydrocarbons and irritating vapors.

Section V. Reactivity

Stability: Stable; non combustible. Decomposition products include carbon monoxide, acetic acid and acrolein if burned with insufficient air.

Hazardous Polymerization: Will not occur.

Section VI. Health Hazard Data

Routes of Entry:	Eye	Inhalation	Skin	Ingestion
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	Yes	Yes	Yes	Yes
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Health Hazards

Acute Exposure: Skin: Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Eyes: Flush immediately with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.

Ingestion: Do Not induce vomiting because of danger of aspirating liquid into lungs. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. **GET IMMEDIATE MEDICAL ATTENTION.**

Inhalation: Remove to fresh air. If not breathing, provide artificial respiration. **GET IMMEDIATE MEDICAL ATTENTION.**

Chronic Exposure: **Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact, especially with broken skin, may cause "chrome sores" or dermatitis.**

Prolonged or repeated inhalation of mist may cause ulceration and perforation of the nasal septum. Epidemiological studies indicate that long-term exposure to high levels of mist in the Chromate-producing industry is associated with increases in respiratory tract cancer in man; the causative agent is not known. Thus far, epidemiological studies have not demonstrated any increased risk of lung cancer at levels below current TLV.

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated
	no	no	No

Signs and Symptoms of Exposure:

Inhalation:	Irritation of the upper respiratory tract, coughing, sore throat, and shortness of breath, dizziness, nausea.
Eyes:	Stinging or burning.
Skin:	Irritation, redness, and burning.
Ingestion:	Burning of mouth and throat, nausea, vomiting, diarrhea or dizziness.

Medical Conditions Generally Aggravated by Exposure:

Dermatitis and breathing disorders.

Emergency and First Aid Procedures:

Inhalation:	Move to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. If symptoms persist or develop, get medical attention.
Skin:	Immediately wash exposed area thoroughly. Remove soiled clothing and footwear and wash before reuse. Discard shoes contaminated with this product. If symptoms persist or develop, get medical attention.
Ingestion:	Do not induce vomiting. Vomiting will cause further damage to the esophagus. Give several glasses of milk or water. Keep warm, quiet.
Eyes:	GET MEDICAL ATTENTION IMMEDIATELY! OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY, THEN GET MEDICAL ATTENTION. Flush IMMEDIATELY with large amounts of water while holding eyelids apart. Flushing within one minute is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY AFTER FLUSHING. <u>If physician is not immediately available, continue flushing with water.</u>

Section VII. Precautions for Safe Handling and Use

Precautions to be Taken During Application and Cleanup Process: **Do not permit runoff during application, rinsing, and cleanup. Collect with wet vacuum or absorb with inert material. Dispose of all, runoff liquid, used absorbent materials, and discarded equipment in accordance with all federal, state, and local regulations.**

Precautions to be Taken if Material is Spilled: **Follow procedures outlined in *Section VIII-Control Measures* when cleaning up spills. Liquid material may be slippery. Cordon off area. Spilled material may stain the floor. Absorb with inert material or clean up with wet/dry vacuum and place in labeled waste container for neutralization and disposal together with any materials contaminated during cleanup.**

Waste disposal Method: **This product is listed as a hazardous waste in Federal regulations, *Resource Conservation & Recovery Act(RCRA) 40 CFR 261*. The transportation, storage, treatment and disposal of any waste material must be conducted in compliance with 40CFR262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Check local and state regulation for any additional requirements.**

Handling and Storing Precautions: **Avoid contact with skin, eyes, and clothing. Store upright in a cool, dry, well-ventilated area in tightly closed containers away from combustible materials and sources of heat. Isolate from incompatible materials. Protect from physical damage. Do not reuse empty containers.**

Section VIII. Control Measures

Respiratory Protection:	Wear organic vapor respirator NIOSH/MSHA TC 23C approved. For respiratory protection guidelines refer to OSHA 29 CFR 1910.134.
Ventilation:	Adequate ventilation and sufficient local exhaust as needed to maintain exposure below TWA and TLV limits.
Protective Gloves:	Wear solvent-resistant gloves.
Eye Protection:	Wear chemical splash goggles.
Other protective clothing or equipment:	Wear suitable protective clothing, chemical resistant apron and boots to avoid skin contact. Emergency eyewash and washing facilities should be available nearby.
Work/Handling practices:	Minimize exposure by wearing protective clothing. Wash with soap and water immediately after handling.