

VPI 100 EPOXY ADHESIVE, PART B

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MATERIAL SAFETY DATA SHEET

DATE: October 14, 10

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: VPI100 EPOXY ADHESIVE, PART A

3123 South 9th Street
Sheboygan, WI 53082
920-458-4664

24 HOUR EMERGENCY ASSISTANCE GENERAL ASSISTANCE

CHEM•TEL: 1-800-424-9300 TELE-TECH: 405-495-8848

HEALTH: 2 HAZARD RATING

FIRE: 0 LEAST =0 SLIGHT =1 MODERATE = 2

REACTIVITY: 0 HIGH =3 EXTREME = 4

CHEMICAL NAME: MIXTURE

CHEMICAL FAMILY: POLYAMINE

PRODUCT DESCRIPTION: POLYAMINE HARDENER

SECTION 2 - A PRODUCT / INGREDIENT

No. COMPOSITION CAS NUMBER PERCENT

1 POLYAMIDE RESIN PROPRIETARY 65-75
2 MISC., NON-HAZARDOUS INERT FILLERS 25-35

SECTION 2 - B ACUTE TOXICITY DATA

No. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

1 > 2.0 g/kg (rat) > 2.0 g/kg Not available
2 Not available Not available Not available

SECTION 3 - HEALTH INFORMATION

THE HEATH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910-1200).

EYE CONTACT: IRRITATING TO THE EYES.

SKIN CONTACT: MAY CAUSE SKIN IRRITATION. HAS BEEN KNOWN TO CAUSE ALLERGIC SKIN REACTION.

INHALATION: MAY CAUSE A MILD IRRITATION TO THE NOSE, THROAT, AND RESPIRATORY SYSTEM.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE EXTREMELY LOW. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

SIGNS AND SYMPTOMS: IRRITATION AS NOTED ABOVE. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

AGGRAVATED MEDICAL CONDITIONS: PRE-EXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PRE-EXISTING SKIN AND LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS: BASED ON ANIMAL STUDIES, REPEATED EXPOSURE TO COMPONENTS OF THIS PRODUCT MAY CAUSE CHANGES IN BODY WEIGHT AND IN THE LIVER AND KIDNEY. LEVELS OF 0.5% AND 1.0% WEIGHT IN THE DIET ALSO CAUSED BLOOD CHANGES AND REDUCED ERYTHROCYTE COUNT AND HEMATOCRIT.

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SECTION 4 - OCCUPATIONAL EXPOSURE LIMITS

OSHA ACGIH OTHER

No. PEL/TWA PEL/CEILING TLV/TWA TLV/STEL

1 None established

2 None established

SECTION 5 - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: REMOVE CONTACT LENSES AT ONCE. IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE FOR AT LEAST 30 MINUTES. HOLD EYELIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE OF EYE AND LIDS WITH WATER.

SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

SECTION 6 - SUPPLEMENTAL HEALTH INFORMATION

CONTACT A POISON CONTROL CENTER FOR ADDITIONAL TREATMENT INFORMATION.

SECTION 7 - PHYSICAL DATA

BOILING POINT (°F): NOT DETERMINED SPECIFIC GRAVITY (H₂O = 1): 1.023

VAPOR PRESSURE (mm Hg @ 20°C): Not determined

SOLUBILITY (IN WATER): Not soluble

VAPOR DENSITY (AIR = 1): Not determined

EVAPORATION RATE (N-BUTYL ACETATE = 1): Not determined

APPEARANCE AND ODOR: Brown paste with amine odor

PERCENT SOLIDS 95%

VOC < 10 g/L

SECTION 8 - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: >340 °F TCC

FLAMMABLE LIMITS /% VOLUME IN AIR: LEL= Not applicable UEL = Not applicable

EXTINGUISHING MEDIA: USE ALCOHOL TYPE FOAM, DRY CHEMICAL, OR CO₂.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FOG NOZZLES ARE PREFERRED IF WATER IS USED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

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SECTION 9 - REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID: AVOID HEAT AND OPEN FLAME. AVOID OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE, AS WELL AS ORGANIC COMPOUNDS OF UNKNOWN STRUCTURE.

SECTION 10 - EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: PROVIDE ADEQUATE VENTILATION. AVOID BREATHING OF VAPORS OR MISTS. AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. WHEN EXPOSURES ARE NOT ADEQUATELY CONTROLLED, USE AN APPROVED RESPIRATOR. FOR EMERGENCY CONDITIONS, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

PROTECTIVE CLOTHING: PROTECTIVE CLOTHING SUCH AS UNIFORMS, COVERALLS, OR LAB COATS MUST BE WORN. LAUNDRY OR DRY-CLEAN WHEN SOILED. GLOVES AND GOGGLES RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES REQUIRED. WHEN HANDLING LARGE QUANTITIES, IMPERVIOUS SUITS, GLOVES, AND RUBBER BOOTS MUST BE WORN.

SECTION 11 - ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: VENTILATE THE AREA. AVOID BREATHING VAPOR. USE SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR FOR LARGE SPILLS OR CONFINED AREAS. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB SUITABLE MATERIAL AND PICK UP WITH SHOVELS. PREVENT ENTRY INTO SEWERS AND WATERWAYS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 12 - SPECIAL PRECAUTIONS

GROUND ALL TRANSFER EQUIPMENT. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. HANDLE AS AN INDUSTRIAL CHEMICAL. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. PRACTICE GOOD CAUTION AND PERSONAL CLEANLINESS TO AVOID SKIN AND EYE CONTACT. HOLD BULK STORAGE UNDER NITROGEN BLANKET. STORE IN A COOL, DRY AREA WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION 13 - TRANSPORTATION REQUIREMENTS

IMPORTANT NOTE: SHIPPING DESCRIPTIONS MAY VARY BASED ON MODE OF TRANSPORT, QUANTITIES, PACKAGE SIZE, AND/OR ORIGIN AND DESTINATION. CONSULT YOUR COMPANY'S HAZARDOUS MATERIALS/DANGEROUS GOODS EXPERT FOR INFORMATION SPECIFIC TO YOUR SITUATION.

GROUND (DOT): NOT REGULATED/LIMITED QUANTITY

AIR (IATA) : UN1760 CORROSIVE LIQUID, NOS, 8, PG II, (TRIETHYLENETETRAMINE)

OCEAN (IMDG) : UN1760 CORROSIVE LIQUID, NOS, 8, PGIII, (TRIETHYLENETETRAMINE) LIMITED QUANTITY

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SECTION 14 - OTHER REGULATORY CONTROLS

NOT MEANT TO BE ALL-INCLUSIVE. SELECTED REGULATIONS PRESENTED.

A. SARATITLE III SECTION 311/312 HAZARDS: IMMEDIATE HEALTH HAZARD

B. WHMIS CLASSIFICATION: CLASSES D2B

C. TSCA STATUS: LISTED ON TSCA INVENTORY

D. OSHA HAZARD COMMUNICATION STD.

SECTION 15 - STATE REGULATORY INFORMATION

CA = CALIFORNIA HAZ. SUBST. LIST; CA65 = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT LIST; CT = CONNECTICUT TOX. SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

SECTION 16 - SPECIAL NOTES

UPDATED MSDS.

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