

Vee-Tek

MATERIAL SAFETY DATA SHEET

Section 1 – Identification of Chemical Product & Company

ABN: 64 704 432 947
Telephone: +61 2 43 234 894
Facsimile: +61 2 43 243 721
Address: 19 Dell Road,
West Gosford
N.S.W 2250
Australia

Product Name: Universal Epoxy Resin B175

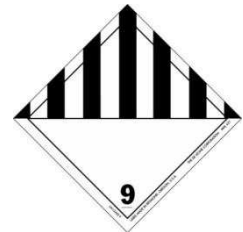
Product Use: In conjunction with epoxy hardeners for Civil Engineering.

Description: Modified Epoxy Resins.

Section 2 – Hazards Identification

U.N. Number: 3082
Hazchem Code: 3Z
Poisons Schedule: 5

Dangerous Goods Class: 9
Packing Group: PG III



RISK PHRASES:

R36/38
R43
R51/53

Irritating to eyes and skin
May cause sensitisation by skin contact
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



SAFETY PHRASES:

S24/25
S26
S28
S37/39
S61

Avoid contact with skin and eyes
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of water and soap
Wear suitable protective gloves and eye/face protection.
Avoid release into the environment

Section 3 – Composition / Information on Ingredients

HAZARDOUS INGREDIENTS

Chemical Entity	C.A.S. No.	Haz	R-phrases	Concentration
Epoxy resin	025085-99-8	Xi, N	R36/38-R43-R51/53	>60%
Epoxy resin	002425-79-8	Xi	R36/38-R43	10-20%
Non-hazardous ingredients or those below cut off limits				to 100%

Section 4 – First Aid Measures

Inhalation: If effects occur, remove to fresh air. Seek Medical attention.

Skin Contact: Wash skin thoroughly with soap and flowing water for 15 minutes. **DO NOT** use solvents to remove product from skin. It is recommended to remove contaminated clothing immediately. Wash clothing thoroughly before re-use. Discard contaminated footwear.

Eye Contact: Hold eyes open and wash thoroughly with flowing water for 15 minutes. Seek prompt medical attention by a doctor.

Swallowed: Do **NOT** induce vomiting. Give glass of water. Call a doctor and/or transport to a hospital promptly.

ADVICE TO DOCTOR

No specific antidote. Supportive care. Treatment based on the judgement of the doctor in response to the reactions of the patient. Skin contact may cause dermatitis; treat as any contact dermatitis.

Section 5 – Fire Fighting Measures

FLAMMABILITY

Non-Flammable liquid.

Will support combustion.

Flash Point: 154 Deg C PMCC

Flammability Limits: N/A

Hazchem Code: Not Applicable

FIRE/EXPLOSION HAZARD

Extinguish with foam, water, dry chemical or carbon dioxide. Drums may rupture when exposed to fire conditions. Wear positive pressure self-contained breathing apparatus. Decomposition products include phenolics, carbon monoxide and water.

Section 6 – Accidental Release Measures

SPILLS AND DISPOSAL

Soak up in an absorbent material, such as sand, sawdust or absorbent clay. Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

Section 7 – Handling & Storage

HANDLING

Refer to Section 8 of this MSDS for details of personal protection measures.

STORAGE

Store in cool place away from heat and ignition sources. Keep partially used product containers closed. Store away from foodstuffs, clothing and keep out of reach of children. Store away from amines.

Section 8 – Exposure Controls / Personal Protection

EXPOSURE LIMITS: Not established for product or individual components.

VENTILATION: Provide general and / or local exhaust Ventilation, depending on type of operations, to control airborne exposures.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Not required for normal operations. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

Hands: Wear body-covering clothing. Protect hands with impervious gloves when handling or using this product. Wear boots.

Eyes: Wear chemical goggles. Eye wash facilities should be located in the immediate work area. Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:

AS 1336:	Recommended practices for eye protection in the industrial environment.
AS/NZS 1337:	Eye protectors for industrial application.
AS/NZS 1715:	Selection, use and maintenance of respiratory protective devices.
AS 2161:	Industrial safety gloves and mittens (excluding electrical and medical gloves).
AS/NZS 2210:	Occupational protective footwear.
AS 2919:	Industrial clothing.

BIOLOGICAL LIMIT: No biological limit allocated

Section 9 – Physical & Chemical Properties

Appearance: Various Colours	Percent Volatile: < 2%
Odour: Not available	Specific Gravity: 1.1 – 2.0
pH: Not Determined	Flammability Limits: N/A
Vapour Pressure: Not Determined	Boiling Point: Not Determined
Vapour Density: Not Determined	Flash Point: 154 Deg C PMCC
Auto Ignition: Not Determined	

Section 10 – Stability & Reactivity

STABILITY / INSTABILITY

Stable under recommended storage conditions. Refer to Section 7 of this MSDS.

Conditions to Avoid: Avoid temperatures above 300°C (572°F) Potentially violent decomposition can occur above 350°C (662°F) Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatible Materials: Avoid contact with oxidizing materials. Avoid contact with: Acids, Bases. Avoid unintended contact with amines.

HAZARDOUS POLYMERISATION

Will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

THERMAL DECOMPOSITION

Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

Section 11 – Toxicological Information

Short Term Hazards (Acute Exposure):

Inhaled: Not expected to be an inhalation hazard by this route, due to the low vapour pressures of the components at ambient temperatures.

Skin Contact: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Eye Contact: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

Swallowed: Acute oral toxicity has not been determined. Acute oral toxicity (rat) for components of this product are each in excess of 2000 mg/kg.

Long Term Hazards (Chronic Exposure):

Inhaled: Prolonged exposure to high concentrations of vapour may affect the central nervous system.

Skin Contact: Product may be a skin sensitiser in some individuals.

Eye Contact: Corneal injury.

Systematic and other effects: Diglycidyl ether of Bisphenol A (Base epoxy resin) that is representative of the current manufacturing process is not believed to be a cancer hazard to humans. Did not cause birth defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some "in vitro" (test tube) mutagenicity tests and positive in others.

Section 12 – Ecological Information

Movement & Partitioning: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

Persistence and Degradability

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Ecotoxicity: Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species).

Section 13 – Disposal Considerations

Disposal: Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

Section 14 – Transport Information

ADG Non-Bulk

NOT REGULATED

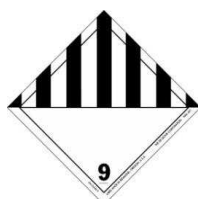
IMDG

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.(Epoxy Resin)

Hazard Class: 9 **ID Number:** U N 3082 **Packing Group:** P G III

Marine pollutant : yes

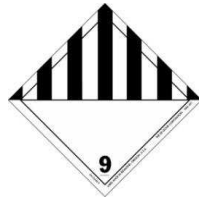
EMS Number: F –A, S –F



ICAO/IATA

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.(Epoxy Resin)

Hazard Class: 9 **ID Number:** U N 3082 **Packing Group:** P G III



Section 15 – Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 – Other Information

ACRONYMS

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Service Registry Number

Hazchem Code: Emergency action code that provides information to emergency services

UN Number: United Nations Number

CONTACT: Vee-Tek Australia +61 02 43 234 894

Date of issue: February 14, 2013

IMPORTANT NOTE:

Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate information available to Hiltour P/L at the time of writing. All information contained herein is given in good faith, but is subject to change without notice.

This MSDS has been prepared in alignment with the NOHSC document *National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition* [NOHSC: 2011(2003)]