Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade Name: E100-VB5™ Part B
1.2 **Article No.: E100-VB5™ Part B**

1.3 Details of the supplier of the Safety Data Sheet Manufacturer:
Elite Crete Systems
1151 Transport Drive
Valparaiso, IN 46383
Toll Free: 888.323.4445
Tel: (219) 465-7671
elitecrete.com

1.4 Emergency telephone number:
CHEMTREC US DOMESTIC: (800-424-9300)
CHEMTREC INTERNATIONAL: (703-527-3887)

2 Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 and GHS:

Acute toxicity – Oral – Category 4
Serious eye damage – Category 4

2.2 Label elements
Labeling according to Regulation (EC) No 1272/2008:
Hazard pictograms:

GHS05 GHS07

Signal word: Danger

Hazard Statements:
H302: Harmful if swallowed
H318: Causes serious eye damage

Precautionary Statements:
Prevention: P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear eye protection/face protection

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P330: Rinse mouth.

Disposal: P501: Disposal of contents/container to be specified in accordance with State, Federal and Local regulations.

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

Hazards not classified: Harmful if swallowed
Severe eye irritant
Moderate respiratory irritant
Moderate skin irritant
Risk of serious damage to eyes

3 Composition/information on ingredients

CAS Identification #	Description	WT. %
N/A	Mannich Base Adduct	40-70%

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret

Chemical Family: Mannich Base

See Section 15 for information concerning WHMIS Registration Number.

4 First aid measures

4.1 General Advice:
Seek medical advice. If breathing has stopped or is labored, give assistance respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

4.2 Eye contact:
Rinse immediately with plenty of water also under eyelids for at least 20 minutes. Remove contact lenses.

4.3 Skin contact:
Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

4.4 Ingestion:
Never give anything by mouth to an unconscious person. If person vomits when lying on back, place them in the recovery position. Prevent aspiration of vomit. Turn victim's head to side.

4.5 Inhalation:
If breathing has stopped or is labored, give assistance respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

4.6 Most important symptoms/effects (acute and delayed):
Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, eye disease, asthma, skin disorders, and allergies

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol-resistant foam, carbon dioxide (CO2), dry chemical, dry sand, limestone powder

5.2 Special hazards arising from the substance or mixture:

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

5.3 Advice for firefighters:

Use personal protective equipment. Wear self-contained breathing apparatus for fire fighting if necessary.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing, gloves, and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

6.2 Environmental precautions:

Construct a dike to prevent spreading

6.3 Methods and material for containment and cleaning up:

Call emergency response number for advice. Approach suspect leak areas with caution. Place in appropriate chemical waste container.

6.4 Additional advice:

Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

7 Handling and storage

7.1 Precautions for safe handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink, or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Do not store near acids. Keep container tightly closed in dry, cool and well-ventilated place.

7.3 Specific end use(s): Keep from freezing.

8 Exposure controls/personal protection

8.1 Engineering Measures

Provide readily accessible emergency eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

8.2 Personal protective equipment:

Respiratory protection: Wear appropriate respirator when ventilation is inadequate.

Hand Protection: Butyl-rubber, Nitrile rubber, Neoprene gloves, Impervious gloves

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection: Chemical resistant goggles must be worn.

Skin and body protection: Long sleeve shirts and trousers without cuffs

Special instructions for protection and hygiene: Discard contaminated leather articles. Wash hands at the end of each work shift and before eating, smoking, or using the toilet. Provide readily accessible eye wash stations and safety showers.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:	
Form:	Liquid
Color:	Slight haze
Odor:	Ammonicacal
Odor threshold:	Not Available

pH-value:	11.2
Change in condition	
Melting point/Melting range:	No data available
Boiling point/Boiling range:	>212°F (>100°C)
Flash point:	>219°F (104°C)
Flammability (solid, gaseous):	Not applicable
Auto/Self-ignition temperature:	No data available
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	Not applicable
Explosion limits	
Lower:	Not applicable
Upper:	Not applicable
Vapor pressure:	No data available

Relative density:	1.08 (Water = 1.0)
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with Water:	Completely soluble
Viscosity:	400mPa.s @ 77°F (25°C)
Density	67.422 lb/ft3 (1.08 g/cm3) at 70°F (21°C)

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable under normal conditions
Thermal decomposition / conditions to be avoided: No data available

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials: Organic acids (i.e. acetic acid, citric acid, etc). Mineral acids. Sodium hypochlorite. Incompatible with bases. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

10.6 Hazardous decomposition products: Nitric acid. Ammonia. Nitrogen gas (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO_2).

11 Toxicological information

11.1 Likely routes of exposure
Effects on eye: Severe eye irritation
Effects on skin: Causes skin irritation
Inhalation effects: Harmful if inhaled and may cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Ingestion effects: Harmful if swallowed
Symptoms: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: sore throat, eye disease, asthma, skin disorders, and/or allergies.

11.2 Acute toxicity:

Acute Dermal	LD 50	>2,000 mg/kg	Rabbit
Acute Oral	LD 50	>500- 2,000 mg/kg	Rat

Inhalation: No data
Skin Corrosion/irritation: Moderate skin irritation
Serious eye damage/eye irritation: Severe eye irritation
Sensitization: No data

11.3 Chronic toxicity or effects from long term exposures
Carcinogenicity: No data
Reproductive toxicity: No data
Germ cell mutagenicity: No evidence of mutagenicity activity was observed in bacterial mutation assay
Specific target organ systemic toxicity (single exposure): No data
Specific target organ systemic toxicity (repeated exposure): No data
Aspiration hazard: No data

11.4 Additional information
Delayed and immediate effects and chronic effects from short and long term exposure.

This product contains no listed carcinogens according to IARC, ACGIH, NTP, and/or OSHA in concentrations of 0.1 percent or greater. Eye disease, asthma, skin disorders, and allergies.

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

12 Ecological information

12.1 Ecotoxicity effects

Aquatic toxicity: No data

Toxicity to other organisms: No data

12.2 Persistence and degradability

Biodegradability: No data

Mobility: No data

Bioaccumulation: No data

13 Disposal considerations

13.1 Waste from residue/unused product: Contact supplier if guidance is required.

13.2 Waste from contaminated packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

14 Transport information

DOT:	**Not Regulated / Not dangerous goods**
IATA:	**Not Regulated / Not dangerous goods**
IMDG:	**Not Regulated / Not dangerous goods**
TDG:	**Not Regulated / Not dangerous goods**

Additional information: Not dangerous goods. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15 Transport information

Country	Regulatory List	Notification
USA	TSCA	Included on inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Not on inventory. Notifications have been submitted to Environment Canada.
Australia	AICS	Not on inventory
Japan	ENCS	Covered by low volume exemption. Not on inventory.
South Korea	ECL	Included on inventory.

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 2.5 **Revision: 2/10/2025**

Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B

China	SEPA	Product has received polymer exemption from the Chinese government to import, manufacture, or use.
Philippines	PICCS	Included on inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Accute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' levels: None.

US California Safe Drinking Water & Toxic Enforcement Act (Prop 65): This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other harm.

WHMIS Ingredient disclosure list: WHMIS Trade Secret Registry Number, 6160 (Granted 2/14/2007)

16 Other information

HMIS Rating

Health: 2

Flammability: 1

Physical hazard: 0

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation.
IATA: International Air Transport Association.
ACGIH: American Conference of Governmental Industrial Hygienists.
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
NFPA: National Fire Protection Association (USA).
HMIS: Hazardous Materials Identification System (USA).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.