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

Printing Date: 12/10/2014

Revision: 12/10/2014

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 Fax: (219) 531-0898 www.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 Oral Toxicity Category 4 Serious eye damage category 1

2.2 Label elements

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



Signal word: Danger

Hazard Statements:

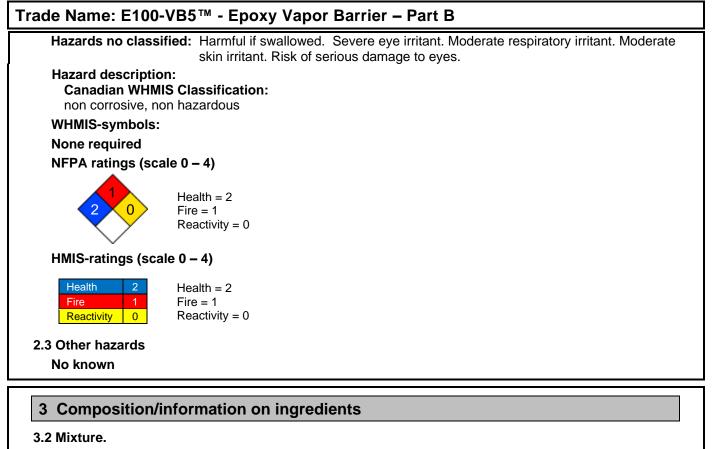
H302: Harmful if swallowed H318: Causes serious eye damage **Precautionary Statements:**

Prevention:	P264: Wash hands thoroughly after handling P270: Do not eat, drink or smoke when using this product
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+P330: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
Disposal:	P501: Disposal of contents/container to be specified in accordance with State, Federal and Local regulations.

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

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Description: Mixture of substances listed below with nonhazardous additives.

Hazardous components:

Identification #	Description	WT. %
CAS: 100-51-6 EINECS: 202-859-9	Benzyl Alcohol GHS Classification: Not hazardous	30-%
CAS: prioritory EINECS:	Manic Base Adduct GHS Classification Not Hazardous	70%
ditional information: WF	IMIS Ingredient Disclosure List.	
WHIMS Trade Secret	Registry Number: 6160 Grant date 2/14/2007	

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

Printing Date: 12/10/2014

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

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention If irritation develops.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Hazards: Pre-existing skin or respiratory system problems may be aggravated by exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide, foam, dry chemical, halon, water spray, 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 oxide gas. Burning produces toxic and noxic fumes. Down wind personnel must be evacuated.

5.3 Advice for firefighters:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**: Personnel should be trained for spill response operations.
- 6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.
- **6.3 Methods and material for containment and cleaning up:** Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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

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

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles:

. Do not store near acids.. keep containers tightly closed in a cool dry and well ventilated place.

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

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory protection: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Protection of hands: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



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Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

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

Printing Date: 12/10/2014

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Trade Name: E100-VB5™ - Epoxy Vapor Barrier – Part B 9 Physical and chemical properties 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Liquid Color: Hazy to amber to brown liquid Odor: Slight ammonia Odor threshold: Not Available 11.2 pH-value: Change in condition No data available Melting point/Melting range: **Boiling point/Boiling range:** 212°F (100°C) Flash point: N/A Flammability (solid, gaseous): No data available Auto/Self-ignition temperature: Not established **Decomposition temperature:** No data available No data available Self-igniting: Danger of explosion: N/A **Explosion limits** Not established Lower: Upper: Not established Vapor pressure at 20 °C: No data available Density at 20°C: 67.422 lb/ft3 (1.08g/cm3) @ 70°F (21°C) **Relative density:** 8.66 pounds per gallon @ 25°C Vapor density: No data available **Evaporation rate:** No data available Solubility in / Miscibility with Water: Not Available Specific Gravity 20oC: (Water = 1): Not Available Viscosity: 400 cps (400mPa) @ 77°F Solvent content: Organic solvents: 0 0.00% VOC (EC) 9.2 Other information No data available

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

Printing Date: 12/10/2014

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

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable

Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, NOx, amines, ammonia and others.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: no data

10.5 Incompatible materials: organic acids, citric acid, acetic acid, etc

10.6 Hazardous decomposition products: Nitric acid, Ammonia, Nitrogen oxides (NOx), Nitrogen oxide can react with water vapors to form corrosive nitric acid.

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

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

Primary irritant effect: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. **Reproductive toxicity information:** No information concerning the effects of this product and its components on the human reproduction system.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals. **Ecotoxical effects:**

Remark:

Additional ecological information: No data available

General notes:

Component Information:

no other information available

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: D002

EU WASTE CODE: To Be Established

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

Printing Date: 12/10/2014

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de Name: E100-VB5™ - Epoxy Vapor Ba	
14 Transport information	
14.1 UN-Number	
DOT: CAN: ADR: ADN: IMDG: IATA:	NOT REGULATED
14.2 UN proper shipping name	
ADR: DOT: CAN: ADR: ADN: IMDG: IATA:	NOT REGULATED
14.3 Transport hazard class(es) DOT: CAN: ADR: ADN: IMDG: IATA:	
Class:	NOT REGULATED
Label:	
14.4 Packing group	
DOT: CAN: ADR: ADN: IMDG: IATA:	NOT REGULATED
14.5 Environmental hazards: Marine pollutant:	NOT REGULATED
14.6 Special precautions for user Danger code (Kemler): EMS Number:	No data available
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available
Transport/Additional information	
ADR	
Limited Quantities (LQ)	
Excepted Quantities (EQ)	No data available
Transport Category: Tunnel restriction code:	
UN "Model Regulation":	No data available

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

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

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

WHMIS Ingredient Disclosure List.

WHIMS Trade Secrete Registry Number(s) 6160 Grant date 2/14/2007

16 Other information

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.

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

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+P330: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

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

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.

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

Printing Date: 10/20/2014

1

Revision: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

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

- 1.1 Product identifier Trade Name: E100-PT4™ Part A
- 1.2 Article No.: E100-PT4™ Part A

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 Fax: (219) 531-0898 www.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: Not Classified Classification according to Directive 1999/45/EC: [Xn] Harmful, [N] Dangerous to the Environment

Information concerning particular hazards for human and environment:

Product Description: This product is a water –white – pale straw colored liquid with a mild epoxy odor. Health Hazards: Mild to moderate eye, skin and respiratory system irritant. Harmful if swallowed. May cause skin sensitization

Flammability Hazards: This product is Flammable above its flash point of 392°F (200°C) **Reactivity Hazards:** None known.

Environmental Hazards: The environmental effects of this product have not been investigated; however it is not expected to cause significant adverse effects.

Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding. **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

2.2 Label elements

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



Signal Word: Warning

Hazard-determining components of labeling: Bisphenol A based Epoxy Resin

Hazard statements

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

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

Revision: 10/20/2014 Printing Date: 10/20/2014 Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A **Precautionary statements** P264: Wash hands thoroughly after handling P270: Do not eat, drink or smoke when using this product P271: Use only in well-ventilated area. P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: If eye irritation persists: Get medical advice/attention. P370+P378: In case of fire: Use for extinction: CO2, powder or water spray. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P391: Collect spillage. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard description: Canadian WHMIS Classification: This product is categorized as a Class D Division 2B Materials causing other toxic effects, as per the Controlled Product Regulations WHMIS-symbols: NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0HMIS-ratings (scale 0 - 4) Health Health = 2Fire Fire = 1Reactivity = 0Reactivity 0 2.3 Other hazards No known 3 Composition/information on ingredients 3.2 Mixture.

Description: Mixture of substances listed below with nonhazardous additives.

Hazardous components:

Identification #	Description	WT. %
CAS: 25085-99-8 EINECS: Not Listed Index Number:	Bisphenol A based Epoxy Resin HAZARD CLASSIFICATION: [Xn] Harmful, [Xi] Irritant RISK PHRASES: R21, R34, R43, R52/53	< 88-92%
CAS: 68609-97-2 EINECS: 271-846-8 Index Number;	Alkyl C-12-C-14 Glycidyl Ether Skin Irritant 1, Skin Sens. 1, Muta. 2; Aquatic Chronic 2; R 43; Xi 38; R 38, R43.	< 8-12%

Additional information: Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

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

Printing Date: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material may cause irritation to skin and eyes. Product may cause an allergic skin reaction.

Chronic: Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis.

Target Organs:Acute: Eye, SkinChronic: Skin

Hazards: Pre-existing skin or eye problems may be aggravated by exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

- **5.2 Special hazards arising from the substance or mixture:** This product is a flammable liquid above flash point shown.
- **5.3 Advice for firefighters:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Personnel should be trained for spill response operations.

6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.

6.3 Methods and material for containment and cleaning up: Evacuate area. Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up spilled material with an absorbent material and pick up and place in an appropriate waste container for disposal. Do not mix with other wastes. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles:

Store between 10 and 50 0C (45 -125 0F) and avoid contact with skin and eyes. Do not store near acids or amines. Ground all transfer equipment. Good general housekeeping procedure should be followed. Do not eat drink or smoke while using the material. Emergency showers should be readily available. Material may partially freeze in cold temperatures which will result in crystals and haziness. If this occurs rewarm and homogenize. Avoid contact with skin eyes. Vapors may irritate eyes and will irritate the skin. Use only with good ventilation and PPE. Keep container closed when not in use.

7.3 Specific end use(s): No information

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory protection: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Protection of hands: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be determined by the manufacturer of the protective gloves. DO NOT exceed the breakthrough time set by the Manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



Tightly sealed goggles

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

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Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information

Appearance: Form: Color: Odor: Odor threshold:	Liquid Colors: gray, tan, red, green, blue, white, black, etc. Mild epoxy odor Not Available
pH-value:	Not Available
Change in condition Melting point/Melting range: Boiling point/Boiling range:	No data available >200°C
Flash point:	>392°F (>200°C)
Flammability (solid, gaseous):	No data available
Auto/Self-ignition temperature:	Not established
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	This product is a flammable liquid above flash point shown above.
Flammability ASTM D 570:	Self-extinguishing
Flame Spread / NFPA 101 ASTM E-84	Class A
Explosion limits Lower: Upper:	Not established Not established
Vapor pressure at 25 °C:	<0.1 mmHg @ 73°F (23°C)
Density at 20°C: Relative density: Vapor density: Evaporation rate:	9.49 lbs. per gallon, specific gravity 1.14 No data available No data available No data available
Solubility in / Miscibility with Water: Specific Gravity 20oC: (Water = 1): Viscosity:	Not Available Not Available
Dynamic: Kinematic:	No data available No data available
Solvent content: Organic solvents:	No data available

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable

Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, hydrocarbons and soot.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Contact with incompatible materials

10.5 Incompatible materials: Oxidizing agents and amines should be avoided as these will cause exothermic polymerization. Avoid extreme heat

10.6 Hazardous decomposition products: Will not occur

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

Acute Dermal	LD 50	>20,000 mg/kg	Rabbit
Acute Oral	LD 50	>5,000 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin and eyes.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

Reproductive toxicity information:

No information concerning the effects of this product and its components on the human reproduction system.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No evidence is currently available on this product's effects on aquatic life. Component Data: CAS# 25085-99-8 Fathead Minnow LC50 3 mg/l 96 h Toxicity to daphnia magna EC50 1.4 -1.7 mg/l 24 h Bacteria: IC50 >42.6 mg/l 18 h Biodegradation: 28 days 12% OECD Bioaccumulation: Not readily biodegradable

12.2 Persistence and degradability: No data available

12.3 Bio accumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals. Ecotoxical effects: Remark:

Additional ecological information: No data available

General notes: No specific data is available for this product, however this product is expected to be readily biodegradable

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: None Listed

EU WASTE CODE: Not Listed

14 Transport information	
14.1 UN-Number	
DOT: CAN:	NOT REGULATED
ADR: ADN: IMDG: IATA:	UN 3082
14.2 UN proper shipping name	
DOT: CAN:	NOT REGULATED
ADR: ADN: IMDG:IATA:	Environmentally Hazardous Substance Liquid N.O.S.
	(Bisphenol A epoxy resin)
14.3 Transport hazard class(es)	^
DOT: CAN;	$\langle ! \rangle$
	\mathbf{V}
ADR: ADN: IMDG:IATA:	
14.4 Packing group DOT: CAN:	NOT REGULATED
ADR: ADN: IMDG:IATA::	PG III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: reaction Products of Epichlorohydrin and Bisphenol A)
Marine pollutant:	YES
Special markings (ADR)	
	Notes: marine pollutant (IMDG code 2.9.3). For air transport, see special provision A97 (ICAO?IATA)> For surface shipments within the USA: Not regulated
14.6 Special precautions for user Danger code (Kemler):	No data available

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Tr	Trade Name: E100-PT4™ – Pigmented Epoxy – Part A	
	EMS Number:	No data available
	14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available
	Transport/Additional information	
	ADR Tunnel restriction code	No data available
	UN "Model Regulation":	No data available

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT4[™] – Pigmented Epoxy – Part A

16 Other information

Relevant phrases:

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

Precautionary statements

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only in well-ventilated area.

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use for extinction: CO2, powder or water spray.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

R21: Harmful in contact with skin

R34: Causes burns.

R43: May cause sensitization by skin contact

R52/53: Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

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.

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

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

- 1.1 Product identifier Trade Name: E 100-PT-4™ Part B
- 1.2 Article No.: E100-PT-4™ 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 Fax: (219) 531-0898 www.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:

Reproductive Toxicity Category 2 Acute Inhalation Toxicity Category 4 Acute Oral Toxicity Category 4 Skin Sensitization Category 1 Skin Corrosion/Irritation Category 2 Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 2

Classification according to Directive 1999/45/EC:

C; Corrosive.

R34: Causes burns.

Xn; Harmful. R22: harmful if swallowed.



Xi; Sensitizing. R43: May cause sensitization by skin contact.

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N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification System:

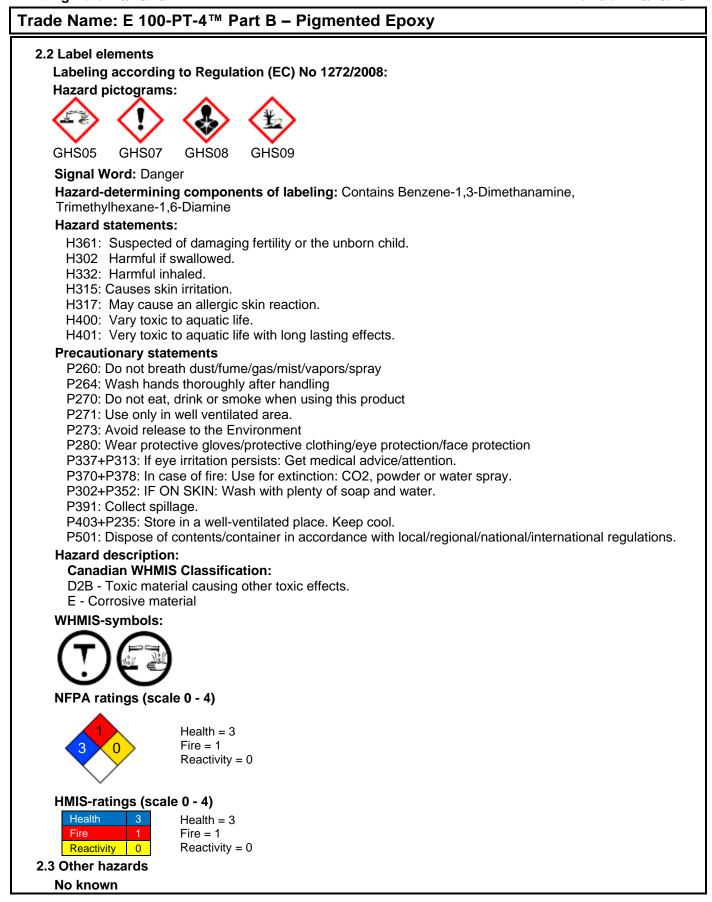
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

3 Composition/information on ingredients

3.2 Mixture.

Description: Mixture of substances listed below with nonhazardous additives. **Hazardous components**:

Identification #	Description	WT. %
CAS: 98-54-4 EINECS: 202-679-0	Paratertiarybutyphenol HAZARD CLASSIFICATION: [C] Corrosive. [N] Dangerous to the Environment RISK PHRASES: R34, R51/53	35 – 50%
CAS: 1477-55-0 EINECS: 216-032-5	Benzene-1,3-dimethanamine HAZARD CLASSIFICATION: [C] Corrosive RISK PHRASES: R34	20 – 30%
CAS: 25620-58-0 EINECS: 247-134-8	Trimethylhexamethylenediamine HAZARD CLASSIFICATION: [Xn] Harmful RISK PHRASES: R37, R43	25 – 45%
CAS: 25154-52-3 EINECS: 246-672-0	Nonyl Phenol HAZARD CLASSIFICATION: Repr Cat 3, [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment RISK PHRASES: R22, R62, R63, R34, R50/53	1 – 5%
CAS: 135108-68-2 EINECS: NO DATA	Methleneoxide Polymer with benzeneamine Hydrogenated HAZARD CLASSIFICATION: RISK PHRASES:	20-39%
CAS: 100-51-6	Benzyl Alcohol HAZARD CLASSIFICATION: RISK PHRASES:	5-30%
	Balance of other ingredients are non-hazardous or less than 1% ir , reproductive toxins, or respiratory sensitizers).	n concentratio

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention If irritation develops.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material is harmful if inhaled and may cause delayed lung injury. This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction. **Chronic:** Prolonged or repeated skin contact may cause dermatitis.

Target Organs:Acute:Eye, Respiratory System, SkinChronic:SkinHazards:Pre-existing skin or respiratory system problems may be aggravated by exposure to this product.4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

5.2 Special hazards arising from the substance or mixture:

This product is flammable above flash point indicated above.

5.3 Advice for firefighters:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Personnel should be trained for spill response operations.

6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.

6.3 Methods and material for containment and cleaning up: Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles:

Store between 5° and 300C and avoid contact with skin and eyes. Do not store near acids. Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Containers of this product must be properly labeled. Nitrogen purging of containers is ideal and good practice.

7.3 Specific end use(s): No information

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

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

Printing Date: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory protection: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Protection of hands: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



Safetv goggles

Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Form: Color: Odor: Odor threshold:	Liquid Translucent yellow or brown Mild epoxy odor Not Available
pH-value:	Not Available
Change in condition Melting point/Melting range: Boiling point/Boiling range:	No data available >446°F (230°C)
Flash point:	>392°F (>200°C)
Flammability (solid, gaseous):	No data available
Auto/Self-ignition temperature:	Not established
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	This product is a flammable liquid above flash point shown above.
Explosion limits Lower:	Not established

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

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Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

Upper:	Not established
Vapor pressure at 20 °C:	<10.34 mmHg @ 21°C
Density at 20°C:	61.804 lb/ft ³ (0.99 g/cm ³)@70°F (21°C)
Relative density:	8.10 pounds per gallon @ 25°C (SG 0.973)
Vapor density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with Water:	Not Available
Specific Gravity 20oC: (Water = 1):	Not Available
Viscosity:	
Dynamic:	No data available
Kinematic:	No data available
Solvent content:	
Organic solvents:	No data available
VOC (EC)	0.00 VOC
9.2 Other information	No data available

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, NOx, amines, ammonia and others.

- **10.3 Possibility of hazardous reactions:** No data available
- 10.4 Conditions to avoid: Contact with incompatible materials
- **10.5 Incompatible materials:** Oxidizing agents and amines should be avoided as these will cause exothermic polymerization. Avoid extreme heat

10.6 Hazardous decomposition products: Will not occur

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

Acute Dermal	LD 50	>2,000 mg/kg	Rabbit
Acute Oral	LD 50	1,750 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. CAS# 64742-53-6 is classified in the EU as a possible cancer causing material.

Reproductive toxicity information: No information concerning the effects of this product and its components on the human reproduction system.

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals. **Ecotoxical effects:**

Remark:

Additional ecological information: No data available General notes:

Component Information:

nonyl phenol CAS# 25154-52-3 Acute Fish Toxicity 96 hr LC50 0.13 mg/l fathead minnow (Pimephales promelas) 48 hr EC50 0.19 mg/l Daphnia Magna Harmful to aquatic organisms. May cause long term damage to environment

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: D002

EU WASTE CODE: To Be Established

14 Transport information

14.1 UN-Number DOT: CAN: ADR: ADN: IMDG: IATA:	UN2735
14.2 UN proper shipping name DOT: CAN: ADN: IMDG: IATA:	Amines, Liquid, Corrosive, N.O.S. (Contains Benzene- 1,3-Dimethanamine, Trimethylhexane-1,6-Diamine)
ADR	2735 Amines, Liquid, Corrosive, N.O.S. (Contains Benzene-1,3-Dimethanamine, Trimethylhexane-1,6- Diamine)
14.3 Transport hazard class(es)	
DOT: CAN: ADN: IMDG: IATA: CLASS:	8 corrosive substances
LABELS:	CORROSIVE S
14.3 Transport hazard class(es)	
ADR CLASS:	8 (C7) Corrosive substances
LABELS:	

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

Printing Date: 10/20/2014

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14.4 Packing group DOT, ADR, IMDG, IATA:TGD	PG II
14.5 Environmental hazards: Marine pollutant:	Yes
Special markings (ADR)	
14.6 Special precautions for user	Warning corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available
Transport/Additional information ADR	
Limited Quantities (LQ)	5L
Excepted Quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging 30ml
	Maximum net quantity per outer packaging 1000 ml
Transport Category:	3
Tunnel restriction code:	E
UN "Model Regulation":	UN2735 Amines, Liquid, Corrosive, N.O.S. (Contains Benzene-1,3-Dimethanamine, Trimethylhexane-1,6- Diamine), Marine Pollutant, Class 8, PGII

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed.

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Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E 100-PT-4[™] Part B – Pigmented Epoxy

16 Other information

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.

Hazard statements:

H361: Suspected of damaging fertility or the unborn child.

H302 Harmful if swallowed.

H332: Harmful inhaled.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H400: Vary toxic to aquatic life.

H401: Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260: Do not breath dust/fume/gas/mist/vapors/spray

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only in well ventilated area.

P273: Avoid release to the Environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use for extinction: CO2, powder or water spray.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

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

Printing Date: 10/28/2014

Revision: 10/28/2014

Trade Name: E100-PT1™ CRYSTAL CLEAR EPOXY – Part A

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

- 1.1 Product identifier Trade Name: E100-PT1™ Part A
- 1.2 Article No.: E100-PT1™ 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 Fax: (219) 531-0898 www.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:

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361fd, H411.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H361.

Skin Irrit. 2 H-315: Causes skin irritation Eye Damage 1; H318: Causes serious eye damage.



GHS09 environment Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.

GHS07 exclamation mark

Acute Tox. 2; H302: Harmful if swallowed. Skin Sensitization 1; H317: May cause an allergic skin reaction. STOT SE 3; H335: May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Xn; Harmful. R22-62: Harmful if swallowed. Possible risk of impaired

fertility. Xi; Sensitizing. R43: May cause sensitization by skin contact

Xi; Irritant. R37: Irritating to respiratory system. R22-48: Harmful if swallowed.

N; Dangerous for the environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Printing Date: 10/28/2014

Revision: 10/28/2014

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP) Trade Name: E100-PT1™ CRYSTAL CLEAR EPOXY – Part A 2.2 Label elements Labeling according to Regulation (EC) No 1272/2008: Hazard pictograms: GHS07 GHS09 Signal Word: Warning Hazard-determining components of labeling: Bisphenol A based Epoxy Resin, Alkyl C-12-C-14 Glycidyl Ether **Hazard statements** H312: Harmful in contact with skin H317: May cause an allergic skin reaction H412: Harmful to aquatic life with long lasting effects **Precautionary statements** P264: Wash hands thoroughly after handling P270: Do not eat, drink or smoke when using this product P271: Use only in well ventilated area. P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: If eve irritation persists: Get medical advice/attention. P370+P378: In case of fire: Use for extinction: CO2, powder or water spray. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P391: Collect spillage. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2.3 Other hazards Results of PBT and vPvB assessment: **PBT:** Not applicable. vPvB: Not applicable. Hazard description: Canadian WHMIS Classification: This product is categorized as a Class D Division 2B Materials causing other toxic effects, as per the Controlled Product Regulations WHMIS-symbols: NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0HMIS-ratings (scale 0 - 4) Health Health = 2Fire Fire = 1Reactivity = 0Reactivity 0 2.3 Other hazards

No known

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

Printing Date: 10/28/2014

Revision: 10/28/2014

Trade Name: E100-PT1[™] CRYSTAL CLEAR EPOXY – Part A

3 Composition/information on ingredients

3.2 Mixture.

Description: Mixture of substances listed below with nonhazardous additives.

Hazardous components:

Identification #	Description	WT. %
CAS: 25085-99-8 EINECS: Not Listed Index Number:	Bisphenol A based Epoxy Resin HAZARD CLASSIFICATION: [Xn] Harmful, [Xi] Irritant RISK PHRASES: R21, R34, R43, R52/53	< 85-92%
CAS: 68609-97-2 EINECS: 271-846-8 Index Number;	Alkyl C-12-C-14 Glycidyl Ether Skin Irritant 1, Skin Sens. 1, Muta. 2; Aquatic Chronic 2; R 43; Xi 38; R 38, R43.	< 8-15%

Additional information: Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material may cause irritation to skin and eyes. Product may cause an allergic skin reaction. Chronic: Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis. Target Organs: Acute: Eye, Skin Chronic: Skin

Hazards: Pre-existing skin or eye problems may be aggravated by exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

- **5.2 Special hazards arising from the substance or mixture:** This product is a flammable liquid above flash point shown.
- **5.3 Advice for firefighters:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

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

Printing Date: 10/28/2014

Revision: 10/28/2014

Trade Name: E100-PT1[™] CRYSTAL CLEAR EPOXY – Part A

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**: Personnel should be trained for spill response operations.
- 6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.
- **6.3 Methods and material for containment and cleaning up:** Evacuate area. Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up spilled material with an absorbent material and pick up and place in an appropriate waste container for disposal. Do not mix with other wastes. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store between 10 and 50 0C (45 -125 0F) and avoid contact with skin and eyes. Do not store near acids or amines. Ground all transfer equipment. Good general housekeeping procedure should be followed. Do not eat drink or smoke while using the material. Emergency showers should be readily available. Material may partially freeze in cold temperatures which will result in crystals and haziness. If this occurs rewarm and homogenize. Avoid contact with skin eyes. Vapors may irritate eyes and will irritate the skin. Use only with good ventilation and PPE. Keep container closed when not in use.

7.3 Specific end use(s): No information

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory protection: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard 294.4-93, the European Standard EN149, or EU member states.

Revision: 10/28/2014

Safety Data Sheet

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

Printing Date: 10/28/2014

Trade Name: E100-PT1™ CRYSTAL CLEAR EPOXY – Part A

Protection of hands: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be determined by the manufacturer of the protective gloves. DO NOT exceed the breakthrough time set by the Manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

Tightly sealed goggles

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Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9 Physical and chemical propertie	S
9.1 Information on basic physical and che General Information	emical properties
Appearance: Form: Color: Odor: Odor threshold:	Liquid Clear – Slight amber haze Mild epoxy odor Not Available
pH-value:	Not Available
Change in condition Melting point/Melting range: Boiling point/Boiling range:	No data available >200°C
Flash point:	>392°F (>200°C)
Flammability (solid, gaseous):	No data available
Auto/Self-ignition temperature:	Not established
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	This product is a flammable liquid above flash point shown above.
Explosion limits Lower: Upper:	Not established Not established
Vapor pressure at 25 °C:	<0.1 mmHg
Density at 20°C: Relative density:	9.45 lbs. per gallon, specific gravity 1.13 No data available

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

Printing Date: 10/28/2014

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Vapor density:	No data available	
Evaporation rate:	No data available	
Solubility in / Miscibility with Water:	Not Available	
Specific Gravity 20oC: (Water = 1):	Not Available	
Viscosity:		
Dynamic:	No data available	
Kinematic:	No data available	
Solvent content:		
Organic solvents:	No data available	
VOC (EC)	No data available	
9.2 Other information	No data available	

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable

Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, hydrocarbons and soot.

- **10.3 Possibility of hazardous reactions:** No data available
- 10.4 Conditions to avoid: Contact with incompatible materials
- **10.5 Incompatible materials:** Oxidizing agents and amines should be avoided as these will cause exothermic polymerization. Avoid extreme heat

10.6 Hazardous decomposition products: Will not occur

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

Acute Dermal	LD 50	>20,000 mg/kg	Rabbit
Acute Oral	LD 50	>5,000 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin and eyes.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

Reproductive toxicity information:

No information concerning the effects of this product and its components on the human reproduction system.

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

Printing Date: 10/28/2014

Revision: 10/28/2014

Trade Name: E100-PT1[™] CRYSTAL CLEAR EPOXY – Part A

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No evidence is currently available on this product's effects on aquatic life.

Component Data: CAS# 25085-99-8 Fathead Minnow LC50 3 mg/l 96 h Toxicity to daphnia magna EC50 1.4 -1.7 mg/l 24 h Bacteria: IC50 >42.6 mg/l 18 h Biodegradation: 28 days 12% OECD

Bioaccumulation: Not readily biodegradable

12.2 Persistence and degradability: No data available

12.3 Bio accumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals.
 Ecotoxical effects:
 Remark:
 Additional ecological information: No data available

General notes: No specific data is available for this product, however this product is expected to be readily biodegradable

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: None Listed

EU WASTE CODE: Not Listed

14 Transport information	
14.1 UN-Number DOT: CAN: ADN: ADR: IMDG: IATA:	NOT REGULATED UN 3082
14.2 UN proper shipping name DOT: CAN: ADN: ADR: IMDG: IATA:	NOT REGULATED Environmentally Hazardous Substance liquid, N.O.S. (Bisphenol A epoxy resin)
14.3 Transport hazard class(es) DOT: CAN:	
ADR: ADN: IMDG: IATA	
14.4 Packing group DOT: CAN:	NOT REGULATED
ADN: ADR: IMDG :IATA	PG III

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

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14.5 Environmental hazards	Product contains environmentally hazardous substances: reaction Products of Epichlorohydrin and Bisphenol A)
Marine Pollutant:	YES Notes: marine pollutant (IMDG code2.9.3). For
Special Marking (ADR):	air transport, see special provision A97. (ICAO/IATA). For surface shipments within the USAL Not Regulated.
14.6 Special precautions for user Danger code (Kemler): EMS Number:	NOT APPLICABLE
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	NOT APPLICABLE
Transport/Additional information	
ADR	
Tunnel restriction code	NOT APPLICABLE
UN "Model Regulation":	NOT APPLICABLE

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

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Trade Name: E100-PT1[™] CRYSTAL CLEAR EPOXY – Part A

16 Other information

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.

Relevant phrases:

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

R21: Harmful in contact with skin

R34: Causes burns

R43: May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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.

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

Printing Date: 10/20/2014

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Trade Name: E100-PT1[™] – Crystal Clear Epoxy – Part B

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

- 1.1 Product identifier Trade Name: E100-PT1™ Part B
- 1.2 Article No.: E100-PT1™ 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 Fax: (219) 531-0898 www.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

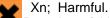
Classification according to Regulation (EC) No 1272/2008 and GHS:

Reproductive Toxicity Category 2 Acute Inhalation Toxicity Category 4 Acute Oral Toxicity Category 4 Skin Sensitization Category 1 Skin Corrosion/Irritation Category 2 Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 2

Classification according to Directive 1999/45/EC:

C; Corrosive.

R34: Causes burns.



R22: harmful if swallowed.

Xi; Sensitizing.

R43: May cause sensitization by skin contact.

N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification System:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

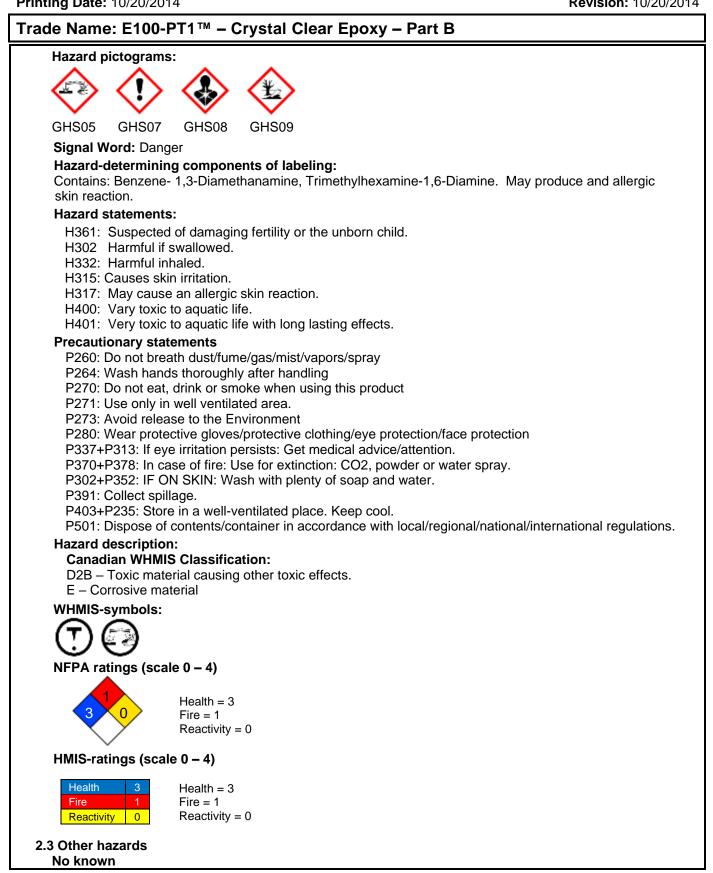
2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008:

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

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Trade Name: E100-PT1[™] – Crystal Clear Epoxy – Part B

3 Composition/information on ingredients

3.2 Mixture.

Description: Mixture of substances listed below with nonhazardous additives. **Hazardous components:**

Identification #	Description	WT. %
CAS: 98-54-4 EINECS: 202-679-0	Paratertiarybutyphenol HAZARD CLASSIFICATION: [C] Corrosive. [N] Dangerous to the Environment RISK PHRASES: R34, R51/53	28– 35%
CAS: 1477-55-0 EINECS: 216-032-5	Benzene-1,3-dimethanamine HAZARD CLASSIFICATION: [C] Corrosive RISK PHRASES: R34	20– 35%
CAS: 25620-58-0 EINECS: 247-134-8	Trimethylhexamethylenediamine HAZARD CLASSIFICATION: [Xn] Harmful RISK PHRASES: R37, R43	12 – 30%
CAS: 25154-52-3 EINECS: 246-672-0	Nonyl Phenol HAZARD CLASSIFICATION: Repr Cat 3, [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment RISK PHRASES: R22, R62, R63, R34, R50/53	1 – 5%
CAS: 9046-10-0	Alpha-(2-Aminomethyl)omega-(2-aminomethylethoxy)- poly(oxy)(methyl-1,2-ethanediyl) HAZARD CLASSIFICATION: (Xn) Harmful RISK PHRASES: R36/38; Xi R43; N51/53; Aquatic Chronic 3, H412; Skin Irrit. 1C, H314, Eye Irrit. 2,H319,Skin Sens 1, H317	10-20%

Additional information: Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention If irritation develops.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material is harmful if inhaled and may cause delayed lung injury. This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction. **Chronic:** Prolonged or repeated skin contact may cause dermatitis.

Target Organs:Acute:Eye, Respiratory System, SkinChronic:SkinHazards:Pre-existing skin or respiratory system problems may be aggravated by exposure to this product.4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

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

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5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

5.2 Special hazards arising from the substance or mixture:

This product is flammable above flash point indicated above.

5.3 Advice for firefighters:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**: Personnel should be trained for spill response operations.
- 6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.
- **6.3 Methods and material for containment and cleaning up:** Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles:

Store between 5° and 300C and avoid contact with skin and eyes. Do not store near acids. Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Containers of this product must be properly labeled. Nitrogen purging of containers is ideal and good practice.

7.3 Specific end use(s): No information

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT1[™] – Crystal Clear Epoxy – Part B

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

- **Respiratory protection:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.
- **Protection of hands:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



Safetv goggles

Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:		
Form:	Liquid	
Color:	Clear pale straw color	
Odor:	Mild epoxy odor	
Odor threshold:	Not Available	
pH-value:	Not Available	
Change in condition		
Melting point/Melting range:	No data available	
Boiling point/Boiling range:	>392°F (200°C)	

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

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Flash point:	>392°F (>200°C)
Flammability (solid, gaseous):	No data available
Auto/Self-ignition temperature:	Not established
	No data available
Decomposition temperature:	
Self-igniting:	No data available
Danger of explosion:	This product is a flammable liquid above flash point shown above.
Explosion limits	
Lower:	Not established
Upper:	Not established
Vapor pressure at 20 °C:	<0.1 mmHg @ 25°C
Density at 20°C:	No data available
Relative density:	8.10 pounds per gallon @ 25°C (SP 0.972)
Vapor density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with Water:	Not Available
Specific Gravity 20oC: (Water = 1):	Not Available
Viscosity:	
Dynamic:	No data available
Kinematic:	No data available
Solvent content:	
Organic solvents:	No data available
VOC (EC)	No data available
9.2 Other information	No data available

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable **Thermal decomposition / conditions to be avoided:** When heated to decomposition this product produces noxious gases such as CO, CO2, NOx, amines, ammonia and others.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Contact with incompatible materials

10.5 Incompatible materials: Oxidizing agents and amines should be avoided as these will cause exothermic polymerization. Avoid extreme heat

10.6 Hazardous decomposition products: Will not occur

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

Printing Date: 10/20/2014

Revision: 10/20/2014

Trade Name: E100-PT1[™] – Crystal Clear Epoxy – Part B

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

Acute Dermal	LD 50	>2,000 mg/kg	Rabbit
Acute Oral	LD 50	1,750 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. CAS# 64742-53-6 is classified in the EU as a possible cancer causing material.

Reproductive toxicity information: No information concerning the effects of this product and its components on the human reproduction system.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals. **Ecotoxical effects:**

Remark:

Additional ecological information: No data available

General notes:

Component Information:

nonyl phenol CAS# 25154-52-3

Acute Fish Toxicity 96 hr LC50 0.13 mg/l fathead minnow (Pimephales promelas)

48 hr EC50 0.19 mg/l Daphnia Magna

Harmful to aquatic organisms. May cause long term damage to environment

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: D002

EU WASTE CODE: To Be Established

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

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14 Transport information	
14.1 UN-Number DOT: CAN: ADN: IMDG: IATA: ADR	UN 2735 UN2735
14.2 UN proper shipping name	
DOT: CAN: ADN: IMDG: IATA:	Amines, Liquid, Corrosive, N.O.S. (Contains Benzene-1,3-Dimethanamine, Trimethylhexane-1,6- Diamine) 2735 Amines, Liquid, Corrosive, N.O.S. (Contains Benzene-1,3-Dimethanamine, Trimethylhexane-1,6-
	Diamine)
14.3 Transport hazard class(es) DOT: CAN: ADN: IMDG: IATA:	
CLASS:	8 Corrosive substances
LABELS:	
ADR:	
CLASS:	8 (C7) Corrosive substances
LABELS:	
14.4 Packing group DOT: CAN: ADR: ADN: IMDG: IATA:	PG II
14.5 Environmental hazards: Marine pollutant:	YES
Special marking (ADR)	
14.6 Special precautions for user	Warning Corrosive substances
Danger code (Kemler): EMS Number:	80 F-A,S-B
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available
Transport/Additional information ADR	
Limited Quantities (LQ) Excepted Quantities (EQ)	5L Code E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000ml
Transport category Tunnel restriction code	3 E
UN "Model Regulation":	UN2735 Amines, Liquid, Corrosive, N.O.S. (Contains Benzene-1,3-Dimethanamine, Trimethylhexane-1,6-

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

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Trade Name: E100-PT1™ – Crystal Clear Epoxy – Part B

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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.

Hazard statements:

H361: Suspected of damaging fertility or the unborn child.

H302 Harmful if swallowed.

- H332: Harmful inhaled.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H400: Vary toxic to aquatic life.
- H401: Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P260: Do not breath dust/fume/gas/mist/vapors/spray
- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P271: Use only in well ventilated area.
- P273: Avoid release to the Environment
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P370+P378: In case of fire: Use for extinction: CO2, powder or water spray. P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P391: Collect spillage.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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.

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

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

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

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

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 Fax: (219) 531-0898 www.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: Not Classified Classification according to Directive 1999/45/EC: [Xn] Harmful, [N] Dangerous to the Environment

Information concerning particular hazards for human and environment:

Product Description: This product is a water –white – pale straw colored liquid with a mild epoxy odor. Health Hazards: Mild to moderate eye, skin and respiratory system irritant. Harmful if swallowed. May cause skin sensitization

Flammability Hazards: This product is Flammable above its flash point of 340°F (170°C) **Reactivity Hazards:** None known.

Environmental Hazards: The environmental effects of this product have not been investigated; however it is not expected to cause significant adverse effects.

Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding. **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

2.2 Label elements

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



GHS07 GHS09

Signal Word: Warning

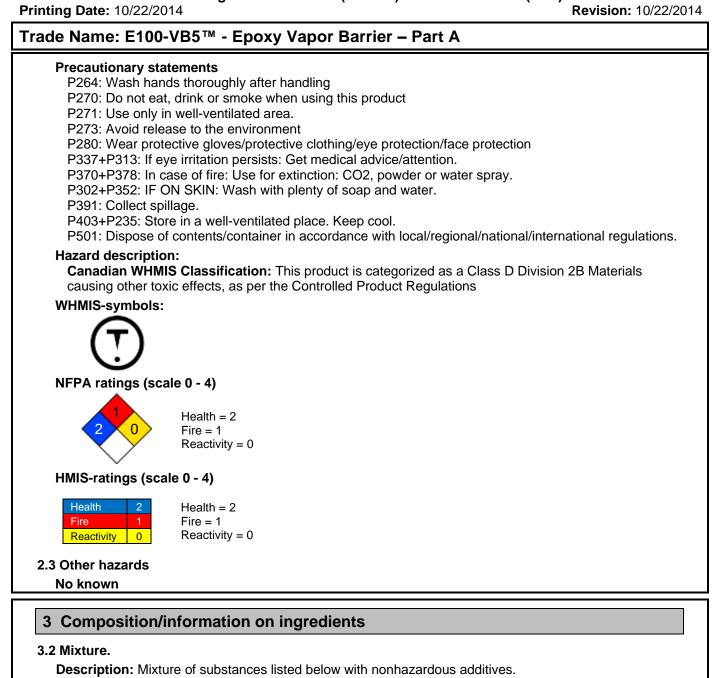
Hazard-determining components of labeling: Bisphenol A based Epoxy Resin

Hazard statements

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

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



Hazardous components:

Identification #	Description	WT. %	
CAS: 25085-99-8 EINECS: Not Listed Index Number:	Bisphenol A based Epoxy Resin HAZARD CLASSIFICATION: [Xn] Harmful, [Xi] Irritant RISK PHRASES: R21, R34, R43, R52/53	< -91%	
CAS: 68609-97-2 EINECS: 271-846-8 Index Number;	Alkyl C-12-C-14 Glycidyl Ether Skin Irritant 1, Skin Sens. 1, Muta. 2; Aquatic Chronic 2; R 43; Xi 38; R 38, R43.	< 9%	

Additional information: Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

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

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

4 First aid measures

4.1 Description of first aid measures

After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

4.2 Most important symptoms and effects, both acute and delayed.

Acute: This material may cause irritation to skin and eyes. Product may cause an allergic skin reaction.

Chronic: Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis.

Target Organs: Acute: Eye, Skin Chronic: Skin

Hazards: Pre-existing skin or eye problems may be aggravated by exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

- **5.2 Special hazards arising from the substance or mixture:** This product is a flammable liquid above flash point shown.
- **5.3 Advice for firefighters:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Personnel should be trained for spill response operations.

6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination.

6.3 Methods and material for containment and cleaning up: Evacuate area. Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up spilled material with an absorbent material and pick up and place in an appropriate waste container for disposal. Do not mix with other wastes. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

7 Handling and storage

7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles:

Store between 10 and 50 0C (45 -125 0F) and avoid contact with skin and eyes. Do not store near acids or amines. Ground all transfer equipment. Good general housekeeping procedure should be followed. Do not eat drink or smoke while using the material. Emergency showers should be readily available. Material may partially freeze in cold temperatures which will result in crystals and haziness. If this occurs rewarm and homogenize. Avoid contact with skin eyes. Vapors may irritate eyes and will irritate the skin. Use only with good ventilation and PPE. Keep container closed when not in use.

7.3 Specific end use(s): No information

8 Exposure controls/personal protection

Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory protection: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Protection of hands: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be determined by the manufacturer of the protective gloves. DO NOT exceed the breakthrough time set by the Manufacturer.

Eye protection: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



Tightly sealed goggles

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

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Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:	
Form: Color:	Liquid Water algor to alight ombor
Odor:	Water – clear to slight amber Mild epoxy odor
Odor threshold:	Not Available
pH-value:	Not Available
Change in condition Melting point/Melting range: Boiling point/Boiling range:	No data available >200°C
Flash point:	>392°F (>200°C)
Flammability (solid, gaseous):	No data available
Auto/Self-ignition temperature:	Not established
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	This product is a flammable liquid above flash point shown above.
Explosion limits	
Lower:	Not established
Upper:	Not established
Vapor pressure at 25 °C:	<0.1 mmHg
Density at 20°C:	9.13 lbs. per gallon, specific gravity 1.10
Relative density:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with Water:	Not Available
Specific Gravity 20oC: (Water = 1):	Not Available
Viscosity:	
Dynamic: Kinematic:	No data available No data available
Solvent content:	
Organic solvents:	No data available
VOC (EC)	No data available
9.2 Other information	No data available
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According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability: Product is stable

Thermal decomposition / conditions to be avoided: When heated to decomposition this product produces noxious gases such as CO, CO2, hydrocarbons and soot.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Contact with incompatible materials

10.5 Incompatible materials: Oxidizing agents and amines should be avoided as these will cause exothermic polymerization. Avoid extreme heat

10.6 Hazardous decomposition products: Will not occur

11 Toxicological information

11.1 Information on toxicological effects: Toxicity data is available for this product

Acute toxicity:

Acute Dermal	LD 50	>20,000 mg/kg	Rabbit
Acute Oral	LD 50	>5,000 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin and eyes.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

Reproductive toxicity information:

No information concerning the effects of this product and its components on the human reproduction system.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No evidence is currently available on this product's effects on aquatic life.

Component Data: CAS# 25085-99-8 Fathead Minnow LC50 3 mg/l 96 h Toxicity to daphnia magna EC50 1.4 -1.7 mg/l 24 h Bacteria: IC50 >42.6 mg/l 18 h Biodegradation: 28 days 12% OECD Bioaccumulation: Not readily biodegradable

12.2 Persistence and degradability: No data available

12.3 Bio accumulative potential: No data available

12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals. **Ecotoxical effects:**

Remark:

Additional ecological information: No data available

General notes: No specific data is available for this product, however this product is expected to be readily biodegradable

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

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

13 Disposal considerations

13.1 Waste treatment methods

Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: None Listed

EU WASTE CODE: Not Listed

14.1 UN-Number	
DOT:CAN:	NOT REGULATED
ADN; ADR: IMDG: IATA:	UN 3082
14.2 UN proper shipping name	
DOT:CAN;	NOT REGULATED
ADR: ADN: IMDG: IATA:	Environmentally hazardous substance Liquid, N.O.S. (Bisphenol A, epoxy resin)
14.3 Transport hazard class(es)	
DOT; CAN:	$\langle \cdot \rangle$
ADN: ADR: IMDG: IATA	
14.4 Packing group	
DOT:CAN:	NOT REGULATED
ADR: ADN: IMDG: IATA:	PG III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: reaction Products of Epichlorohydrin and Bisphenol A)
Marine pollutant:	YES
Special Markings (ADR):	
	Notes: marine pollutant (IMDG code 2.9.3). For air transport, see special provision A97 (ICAO/IATA). For surface shipments in the USA: Not Regulated

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

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rade Name: E100-VB5™ - Epoxy Vapor Barrier – Part A		
Danger code (Kemler): EMS Number:	No data available No data available	
14.7 Transport in bulk according to Annex of MARPOL73/78 and the IBC Code:	II No data available	
Transport/Additional information		
ADR Tunnel restriction code	No data available	
UN "Model Regulation":	No data available	

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Toxic Release Inventory): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

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Trade Name: E100-VB5[™] - Epoxy Vapor Barrier – Part A

16 Other information

Relevant phrases:

H312: Harmful in contact with skin

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

Precautionary statements

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only in well-ventilated area.

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use for extinction: CO2, powder or water spray.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

R21: Harmful in contact with skin

R34: Causes burns.

R43: May cause sensitization by skin contact

R52/53: Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

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.