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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B

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

1.1 Product identifier Trade Name: E100-RT1[™] COLD TEMP EPOXY - Part B

1.2 Article No.: E100-RT1™ Part B

1.3 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier:

Elite Crete Systems 1151 Transport Drive Valparaiso, IN 46383 Toll Free: 888.323.4445 Tel: (219) 465-7671 <u>elitecrete.com</u>

1.4 Emergency telephone number:

 CHEMTREC US DOMESTIC:
 (800-424-9300)

 CHEMTREC INTERNATIONAL:
 (703-527-3887)

 CANUTEC, CA DOMESTIC:
 (613-996-6666)

2 Hazards identification

2.1 Classification of the substance or mixture

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Acute toxicity - Category 4 - Oral Acute toxicity - Category 4 - Dermal Skin corrosion - Category 1A Serious eye damage - Category 1 Skin sensitisation - Category 1

Label elements

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

Hazard pictograms:



word: DANGER!

Hazards

Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Precautionary statements

Prevention

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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



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

Identification #	Description	WT. %
CAS: 2579-20-6 EINECS:	 1,3,-Cyclohexanebis (Methylamine) HAZARD CLASSIFICATION: [C] Corrosive. [N] Dangerous to the Environment RISK PHRASES: R34, R51/53 	25–<50%
CAS: 1477-55-0 EINECS: 216-032-5	Benzene-1,3-dimethanamine HAZARD CLASSIFICATION: [C] Corrosive RISK PHRASES: R34	20-< 35%
CAS: 69-72-7	Salicylic acid	5-<15%

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B			
	EINECS:	HAZARD CLASSIFICATION: [Xn] Harmful RISK PHRASES: R37, R43	
	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: 61788-44-1	Styrenated phenol 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-<25%

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 Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

Eye contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections. environmentally sensitive areas.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep upwind of spill. Ventilate area of leak or spill. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. **Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Absorb with materials such as: Sand. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - 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:

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.

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.



Safety 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.

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

Version:	1.	1
----------	----	---

9.2 Other information

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B 9 Physical and chemical properties 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Liauid Color: Straw to dark brown Odor: Ammonia like odor **Odor threshold:** Not Available pH-value: 8-11 Change in condition No data available Melting point/Melting range: **Boiling point/Boiling range:** >392°F (200°C) >392°F (>200°C) Flash point: Flammability (solid, gaseous): No data available Auto/Self-ignition temperature: Not established **Decomposition temperature:** No data available No data available Self-igniting: This product is a flammable liquid above flash point Danger of explosion: shown above. **Explosion limits** Lower: Not established Upper: Not established <5hPa @ 122°F (50°C) Vapor pressure at 20 °C: Density at 20°C: 1.035 **Relative density:** 8.62 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): 1.04 Viscosity: **Dynamic:** No data available 600 cSt @ 77°F (25°C) ASTM D 445 **Kinematic:** Solvent content: Organic solvents: No data available VOC (EC) 0.0

No data available

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - 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: 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

Toxicological information on this product or its components appear in this section when such data is available. Acute toxicity

Acute oral toxicity

Low toxicity if swallowed. Swallowing may result in gastrointestinal irritation or ulceration. Swallowing may result in burns of the mouth and throat.

As product: Single dose oral LD50 has not been determined. Based on information for component(s):

LD50, Rat, > 1,000 mg/kg Estimated.

Acute dermal toxicity

Prolonged or widespread skin contact may result in absorption of potentially harmful amounts.

As product: The dermal LD50 has not been determined. Based on information for component(s):

LD50, Rabbit, > 1,000 mg/kg Estimated.

Acute inhalation toxicity

Vapor may cause severe irritation of the upper respiratory tract (nose and throat). Mist may cause irritation of upper respiratory tract (nose and throat).

The LC50 has not been determined.

Skin corrosion/irritation

Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Vapor may cause severe eye irritation.

Sensitization

A component in this mixture has caused allergic skin reactions in humans.

Contains component(s) which have demonstrated the potential for contact allergy in mice.

Contains component(s) which have caused allergic skin sensitization in guinea pigs.

Individuals having an allergic skin reaction to this product may have an allergic skin reaction to similar material(s).

The similar material(s) is/are:

Triethylenetetramine (TETA).

Aminoethylethanolamine (AEEA).

Piperazine.

For respiratory sensitization:

Relevant data not available.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B
Specific Target Organ Systemic Toxicity (Repeated Exposure)
For the component(s) tested:
Heart
Kidnev.
Liver.
Spleen.
In animals, effects have been reported on the following organs:
Thyroid.
Nervous system.
Respiratory tract.
Central nervous system.
Gastrointestinal tract.
Based on Information for component(s):
Carcinogonicity
Contains component(s) which did not cause cancer in laboratory animals
Teratogenicity
Contains component(s) which caused birth defects in laboratory animals only at doses toxic to the mother.
Contains component(s) which did not cause birth defects in laboratory animals.
Reproductive toxicity
Contains component(s) which did not interfere with reproduction in animal studies
Mutagenicity
Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others.
Contains a component(s) which were negative in in vitro genetic toxicity studies. Contains component(s) which
were negative in animal genetic toxicity studies.
Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.
COMPONENTS INFLUENCING TOXICOLOGY:
Styrenated phenol
Acute inhalation toxicity
Mist may cause irritation of upper respiratory tract (nose and throat).
Salicylic acid
The LC50 has not been determined
1 3-Cvclohexanehis(methylamine)
Acute inhalation toxicity
As product: The LC50 has not been determined.
Vapor may cause severe irritation of the upper respiratory tract (nose and throat).
Aminoethylpiperazine
Acute inhalation toxicity
The LC50 has not been determined. 8 Hour, vapour, No deaths occurred following exposure to a saturated
atmosphere.
1,3-Dihydroxybenzene
Acute inhalation toxicity
At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be
LCO Rat female 1 Hour dust/mist 1 732 mg/l No deaths occurred at this concentration
1 3-Renzenedimethanamine
Acute inhalation toxicity
Prolonged excessive exposure may cause serious adverse effects, even death. Excessive exposure may
cause severe irritation to upper respiratory tract (nose and throat) and lungs. Salivation.
I C50 Rat 4 Hour dust/mist 1 34 mg/l

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

Version: 1.1

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B

12 Ecological information Ecotoxicological information on this product or its components appear in this section when such data is available. Toxicity Styrenated phenol Acute toxicity to fish Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LL50, Brachydanio rerio (zebrafish), semi-static test, 96 Hour, 14.8 mg/l, OECD Test Guideline 203 Acute toxicity to aquatic invertebrates EL50, Daphnia magna, Static, 48 Hour, > 1 - 10 mg/l, OECD Test Guideline 202 Acute toxicity to algae/aguatic plants EL50, Desmodesmus subspicatus (green algae), Static, 72 Hour, 3.14 mg/l, OECD Test Guideline 201 Chronic toxicity to fish NOEC, Oryzias latipes (Orange-red killifish), flow-through, 14 d, 1.9 mg/l Chronic toxicity to aquatic invertebrates NOEC, Daphnia magna, 21 d, 0.2 mg/l Salicylic acid Acute toxicity to fish Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). LC50, emerald shiner (Notropis atherinoides), 96 Hour, > 150 mg/l, Method Not Specified. LC50, Leuciscus idus (Golden orfe), static test, 48 Hour, 90 mg/l, Method Not Specified. Acute toxicity to aquatic invertebrates LC50, Daphnia magna (Water flea), 24 Hour, 105 - 230 mg/l, Method Not Specified. Toxicity to bacteria EC50, activated sludge, 3 Hour, > 3,200 mg/l, OECD 209 Test 1,3-Cyclohexanebis(methylamine) Acute toxicity to fish Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). LC50, Leuciscus idus (Golden orfe), 96 Hour, > 100 mg/l, Method Not Specified. Acute toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea), 48 Hour, 29 mg/l, OECD Test Guideline 202 or Equivalent Acute toxicity to algae/aguatic plants EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 276 mg/l, OECD Test Guideline 201 or Equivalent Toxicity to soil-dwelling organisms EC50, Eisenia fetida (earthworms), 14 d, growth, >= 1,000 mg/kg Aminoethylpiperazine Acute toxicity to fish Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 2,190 mg/l, OECD Test Guideline 203 or Equivalent Acute toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea), static test, 48 Hour, 58 mg/l, OECD Test Guideline 202 or Equivalent Acute toxicity to algae/aquatic plants ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, > 1,000 mg/l, OECD Test Guideline 201 or Equivalent 1.3-Dihydroxybenzene Acute toxicity to fish

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

Version: 1.1 Revision: 5/2/2022 Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), flow-through test, 96 Hour, > 100 mg/l, OECD Test Guideline 203 or Equivalent Acute toxicity to aquatic invertebrates LC50, Daphnia magna (Water flea), 48 Hour, 1.28 mg/l EC50, Daphnia magna (Water flea), static test, 48 Hour, <0.8 mg/l Acute toxicity to algae/aguatic plants ErC50, alga Scenedesmus sp., 96 Hour, Growth rate inhibition, 60 mg/l EC50, Chlorella pyrenoidosa (aglae), 72 Hour, Growth rate, 1.1 mg/l, Method Not Specified. 1,3-Benzenedimethanamine Acute toxicity to fish Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). LC50, Leuciscus idus (Golden orfe), 96 Hour, 75 mg/l Acute toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea), static test, 48 Hour, 15.2 mg/l, OECD Test Guideline 202 or Equivalent Acute toxicity to algae/aquatic plants EC50, alga Scenedesmus sp., static test, 72 Hour, Biomass, 12 mg/l, OECD Test Guideline 201 or Equivalent Chronic toxicity to aquatic invertebrates NOEC, Daphnia magna (Water flea), 21 d, number of offspring, 4.7 mg/l Persistence and degradability Styrenated phenol Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. For similar material(s): **Biodegradation:** 4 % Method: OECD Test Guideline 310 Salicylic acid Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. 10-day Window: Not applicable Biodegradation: 88.1 % Exposure time: 14 d Method: OECD Test Guideline 301C or Equivalent Theoretical Oxygen Demand: 1.62 mg/mg Photodegradation Test Type: Half-life (indirect photolysis) Sensitizer: OH radicals Atmospheric half-life: 0.823 d Method: Estimated. 1.3-Cyclohexanebis(methylamine) Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability). 10-day Window: Fail **Biodegradation: 29 %** Exposure time: 28 d Method: OECD Test Guideline 301B or Equivalent 10-day Window: Not applicable **Biodegradation:** 92 - 96 % Exposure time: 28 d Method: OECD Test Guideline 303A or Equivalent Theoretical Oxygen Demand: 3.37 mg/mg Aminoethylpiperazine

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

Revision: 5/2/2022 Version: 1.1 Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines. 10-day Window: Fail **Biodegradation:** 0 % Exposure time: 28 d Method: OECD Test Guideline 301F or Equivalent Theoretical Oxygen Demand: 3.34 mg/mg Chemical Oxygen Demand: 1.84 mg/mg Photodegradation Atmospheric half-life: 0.05 d Method: Estimated. 1,3-Dihydroxybenzene **Biodegradability:** Material is expected to be readily biodegradable. 10-day Window: Not applicable **Biodegradation:** 66.7 % Exposure time: 14 d Method: OECD Test Guideline 301C or Equivalent 10-day Window: Not applicable **Biodegradation:** 97 % Exposure time: 4 d Method: OECD Test Guideline 302B or Equivalent 10-day Window: Not applicable **Biodegradation:** 88.1 % Exposure time: 14 d Method: OECD Test Guideline 301C or Equivalent Theoretical Oxygen Demand: 1.62 mg/mg Photodegradation Test Type: Half-life (indirect photolysis) Sensitizer: OH radicals Atmospheric half-life: 0.823 d Method: Estimated. 1.3-Cvclohexanebis(methylamine) Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability). 10-day Window: Fail **Biodegradation:** 29 % Exposure time: 28 d Method: OECD Test Guideline 301B or Equivalent 10-day Window: Not applicable **Biodegradation:** 92 - 96 % Exposure time: 28 d Method: OECD Test Guideline 303A or Equivalent Theoretical Oxygen Demand: 3.37 mg/mg Aminoethylpiperazine Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines. 10-day Window: Fail **Biodegradation:** 0 % Exposure time: 28 d Method: OECD Test Guideline 301F or Equivalent Theoretical Oxygen Demand: 3.34 mg/mg Chemical Oxygen Demand: 1.84 mg/mg Photodegradation Atmospheric half-life: 0.05 d Method: Estimated.

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

Version: 1.1	Revision: 5/2/2022	
Trade Name: E100-RT1™ COLD TEMP EPO	XY - Part B	
 1,3-Dihydroxybenzene Biodegradability: Material is expected to be readily biod 10-day Window: Not applicable Biodegradation: 66.7 % Exposure time: 14 d Method: OECD Test Guideline 301C or Equivalent 10-day Window: Not applicable Biodegradation: 97 % Exposure time: 4 d Method: OECD Test Guideline 302B or Equivalent 10-day Window: Not applicable 	egradable.	
Biodegradation: 90 - 95 % Exposure time: 7 - 15 d Method: OECD Test Guideline 302B or Equivalent Theoretical Oxygen Demand: 1.89 mg/mg Biological oxygen demand (BOD) Incubation Time 5 d 10 d 20 d	BOD 75.000 % 79.000 % 90.000 %	
Theoretical Oxygen Demand: 3.17 mg/mg Photodegradation Test Type: Half-life (indirect photolysis) Sensitizer: OH radicals Atmospheric half-life: 0.15 d Method: Estimated. Bioaccumulative potential Styrenated phenol Bioaccumulation: No relevant data found. Salicylic acid Bioaccumulation: Bioconcentration potential is low (BCI Partition coefficient: n-octanol/water(log Pow): 2.26 M 1,3-Cyclohexanebis(methylamine) Bioaccumulation: Bioconcentration potential is low (BCI Partition coefficient: n-octanol/water(log Pow): 0.44 (Aminoethylpiperazine	F < 100 or Log Pow < 3). //easured F < 100 or Log Pow < 3). DECD Test Guideline 107 or Equivalent	
Partition coefficient: n-octanol/water(log Pow): -1.48 Measured 1,3-Dihydroxybenzene Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient: n-octanol/water(log Pow): 0.8 - 0.97 Estimated. 1,3-Benzenedimethanamine Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient: n-octanol/water(log Pow): 0.18 OECD Test Guideline 107 or Equivalent Bioconcentration factor (BCF): < 3 Cyprinus carpio (Carp) 42 d Measured Mobility in soil Styrenated phenol No relevant data found. Salicylic acid		
Potential for mobility in soil is very high (Koc between 0 a Given its very low Henry's constant, volatilization from na an important fate process. Partition coefficient(Koc): 24 Estimated. 1,3-Cyclohexanebis(methylamine) Potential for mobility in soil is high (Koc between 50 and	nd 50). tural bodies of water or moist soil is not expected to be	

Revision: 5/2/2022

Safety Data Sheet

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

Version: 1.1

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): > 141 - 832 Measured

Aminoethylpiperazine

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient(Koc): 37000 Estimated.

1,3-Dihydroxybenzene

No relevant data found.

1,3-Benzenedimethanamine

Potential for mobility in soil is low (Koc between 500 and 2000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 910 Estimate

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: ADN: IMDG: IATA:	UN 2735
ADR	UN2735
14.2 UN proper shipping name	
DOT: CAN: ADN: IMDG: IATA:	Amines, liquid, corrosive, n.o.s.(1,3- Cyclohexanebis(methylamine), 1,3- bonzonodimothanamino)
ADR	benzeneumethananme)
14.3 Transport hazard class(es)	
DOT: CAN: ADN: IMDG: IATA:	
CLASS:	8 Corrosive substances
LABELS:	CORROSIVE 8
ADR:	
CLASS:	8 (C7) Corrosive substances
LABELS:	

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

sion: 1.1	Revision: 5/2/2
ade Name: E100-RT1™ COLD TEMP E	EPOXY - Part B
14.4 Packing group DOT: CAN: ADR: ADN: IMDG: IATA:	PG 1
14.5 Environmental hazards: Marine pollutant:	YES
Special marking (ADR)	
14.6 Special precautions for user Danger code (Kemler): EMS Number:	Warning Corrosive substances 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- Diamine), 8, II

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)

Version: 1.1	Ve	rsic	n:	1.	.1
--------------	----	------	----	----	----

Revision: 5/2/2022

Trade Name: E100-RT1™ COLD TEMP EPOXY - Part B

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act: The following chemicals CASRN

The following chemicals are listed because of the additional requirements of

Pennsylvania law:

Components

Aminoethylpiperazine	140-31-8
1,3-Dihydroxybenzene	108-46-3
1,3-	1477-55-0

Benzenedimethanamine

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.