

Safety Data Sheet

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

Printing Date: 1/19/2015

Revision: 119/2015

Trade Name: E100-PC2™ - Coal Tar Epoxy – Part B

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

1.1 Product identifier

Trade Name: E100-PC2™ - Part B

1.2 Article No.: E100-PC2™ - 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:

[Repr Cat 3, [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment

Information concerning particular hazards for human and environment:

Product Description: This product is a pale straw - yellow colored liquid with mild ammoniacal odor.

Health Hazards: Harmful if swallowed; Corrosive, CNS depressant; Severe Eye Irritant, Severe Respiratory Irritant, May cause skin sensitization

Flammability Hazards: This product is Flammable above its flash point of 205°F (96°C)

Reactivity Hazards: None known.

Environmental Hazards: This product contains ingredients that are toxic to aquatic life.

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:



GHS02



GHS07



GHS08



GHS09



GHS05

Signal Word: Danger

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Hazard-determining components of labeling: Contains: Benzo(a)pyrene, Benzo(b)fluoranthene, Parateritarybutyphenol, Benzene-1,3-dimethanamine, Trimethylhexamethylenediamine

GHS hazard statements:

Aspiration hazard category 1	H304: May be fatal if swallowed and enters airways.
Skin irritation, category 2	H315+H317: Causes skin irritation. May cause allergic skin reaction.
Eye irritation category 2	H319+H318: Causes serious eye irritation. Causes serious eye damage.
Acute Toxicity, Inhalation Category 4	H332: Harmful if inhaled
STOT, single exposure category 3 RTI	H335: May cause respiratory irritation
Carcinogenicity category 2 STOT, repeated exposure category 2	H351+H350: Suspected of causing cancer. May cause cancer. H373: May cause damage to organs through prolonged or repeated exposure
Toxic to reproduction (fertility and unborn child) Category 1B	H340+H360FD: May cause generic defects, may damage fertility. May damage the unborn child.
Aquatic hazard category 1	H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

P202: Do not handle until all safety instructions and precautions have been read and understood
 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
 P301+P310: IF SWALLOWED: Immediately call a poison center/doctor/physician
 P303+P361+P353: IF ON SKIN (or hair):Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P308+P313: IF exposed or concerned: Get medical advise/ attention.
 P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 P314: Get medical advice/attention if you feel unwell.
 P321: Specific treatment see first aid on this label.
 P331: DO NOT INDUCE vomiting
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 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+P223+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 P405: Store locked up.
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description:

Canadian WHMIS Classification:

D2B - Toxic material causing other toxic effects.
 E - Corrosive material

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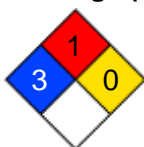
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WHMIS-symbols:



NFPA ratings (scale 0 - 4)



Health = 3
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health	3
Fire	1
Reactivity	0

Health = 3
Fire = 1
Reactivity = 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: 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: 8007-45-2	Coal tar	55-75%

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).

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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, remove contact lenses if easy to do so. 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 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 SDS 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, Skin **Chronic:** Skin

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:

Alcohol resistant foam, CO₂, powders, water spray.

5.2 Special hazards arising from the substance or mixture:

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent (SCBA) and full protective gear as each individual country regulation authority directs. Avoid use of solid water streams. Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

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.

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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. 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

Ingredients with occupational exposure limits

CHEMICAL NAME	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Coal tar	0.2 mg/m ³			
Naphthalene	100ppm	50mg/m ³		
m-phenylenebis (methylamine				
Naphthalene	0.1 mg/m ³	0.1 mg/m ³		

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.

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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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Color: Black
Odor: Asphalt tar odor
Odor threshold: Not Available

pH-value:	Not Available
Change in condition	
Melting point/Melting range:	No data available
Boiling point/Boiling range:	No da
Flash point:	>205°F (>96°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 20 °C:	<0.1 mmHg @ 25°C

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Density at 20°C:	No data available
Relative density:	8.66 pounds per gallon, SG (1.04) @ 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:	
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, NO_x, 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

SECTION 11 Toxicological information



Information on Toxicological Effects

This product contains coal tar with the presence of polynuclear aromatic compounds. Substances that should be considered to cause cancer in humans. There is also the possibility of damage at the chromosomal level. Exposure to the sun or other sources of UV light may increase the sensitivity of the eyes and skin. May cause allergic skin reactions with repeated exposure. Direct contact with eyes can cause irreversible damage, including blindness.

EFFECTS OF OVEREXPOSURE - INHALATION: Prolonged inhalation may be harmful. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). May cause dizziness and drowsiness.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Contact with skin may cause mild irritation. Can be absorbed through skin and produce central nervous system effects. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Symptoms may include stinging, tearing, redness and swelling.

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Ingestion may cause gastrointestinal tract irritation. May cause nausea and diarrhea.

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EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Suspect cancer hazard. Possible brain damage from overexposure. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes. Significant exposure to this chemical may adversely affect people with chronic disease of the central nervous system.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Oral LD50, mg/kg</u>	<u>Dermal LD50, mg/kg</u>	<u>Vapor LC50, mg/L</u>
1477-55-0	m-phenylenebis (methylamine)	1040 (rat)	_____	_____
25620-58-0	Trimethylhexane-1,6-diamine	900 (rat)		
8007-45-2	Coal tar	0.2 (rat)		

Irritation/Corrosion

Many of the chemical above will cause:

Eyes:	Mild to Severe eye irritant	(Rabbit)
Skin:	Mild to severe skin irritant	(Rabbit)
Respiratory:	Mild to severe irritant	(Rabbit)

Sensitizer:

Product name	Route of exposure	Species	Result
Anthracene	skin	Guinea pig	Sensitizing
Coal Tar	skin	Mouse	Sensitizing

Aspiration hazard

Coal tar	ASPIRATION HAZARD – Category 1
----------	--------------------------------

Potential Chronic health effects

Product/ingredient/name effects	Carcinogenic effects	Mutagenic effects	Development effects	Fertility
Coal Tar H360F	Carc. 1A H350	Muta. 1B H340	Repr. 1B, H360D (unborn child)	Repr. 1B (fertility)
Anthracene H361f	--	--	Repr.2, H361d (unborn child)	Repr. 2, (fertility)
Benzo(a)pyrene H360F	Carc.1B, H350	Muta. 1B, H340	Repr. 1B, H360D (unborn child)	Repr.1B, (fertility)

Sensitization:

Coal tar and or amine contains ingredients that may produce an allergic skin reaction.

Other information:

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No additional known significant effects or critical hazards.

SECTION 12 Ecological information

ECOLOGICAL INFORMATION:

Do not allow to enter open drains or water courses. Very toxic to aquatic life with long lasting effects.

12.1 Toxicity

Product name/ingredient	result	species	exposure
Coal tar	Acute EC50 137 mg/l	Daphnia	48 hours
Trimethylhexane-1,6-diamine	Acute EC50 84 mg/l	Algae	72 hours
m-phenylenebis(methylamine)	Acute EC50 25.8 mg/	Fish	96 hours
naphthalene	Acute EC50 1600 ug/l (fresh water)	Algae	96 hours
	Acute LC50 2350 ug.l (marine water)	Crustaceans	48 hours
	Acute LC50 213 ug/l (fresh water)	Fish	96 hours
Benzo(a)pyrene	Acute EC50 5ug/l (fresh water)	Algae	72 hours
	Acute LC50 11mg/l (marine water)	Crustaceans	48 hours
	Acute LC50 0.25 mg/l (fresh water)	Daphnia	48 hours
	Chronic NOEC 12 ug.l (fresh water)	Crustaceans	21 days

12.2 persistence and degradability

Product/ingredient name	Test	Result/Biodegradability
Trimethylhexane-1,6-diamine	OECD 301D 301D Ready	4%- Not readily – 28 days

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Coal Tar	6.04	-	high
Trimethylhexane-1,6-diamine	0.219	-	low
Naphthalene	3.4	36.6 – 168	low
Benzo(a)pyrene	6.13	-	high

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12.4 Mobility in soil

No known data available

12.5 Results of PBT and vPvB assessment

Not Applicable

12.6 Other adverse effects

Marine pollutant

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, ADR, IMDG, IATA: IMO: UN2735

14.2 UN proper shipping name

DOT:CAN: IMDG: IATA: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
contains (POLYALKYLAMINES)

ADR: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
contains (POLYALKYLAMINES)

14.3 Transport hazard class(es)

DOT:CAN: IMDG: IATA

Class: 8 Corrosive substances

Label:



ADR:

Class: 8 (C7) Corrosive substances

Label:




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14.4 Packing group	
DOT, ADR, IMDG, IATA: TGD:	PG III
14.5 Environmental hazards:	
Marine pollutant:	YES
	
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
ADR	
Tunnel restriction code	No data available
UN "Model Regulation":	3082 Environmentally hazardous substance, Liquid N.O.S. (Contains Benzo(a)pyrene, Benzobfluoranthene) Marine Pollutant

SECTION 15 Regulatory information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Xylene	1330-20-7
Coal tar (ingredients listed below)	8007-45-2

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TOXIC SUBSTANCES CONTROL ACT:

<u>Chemical Name</u>	<u>CAS- No.</u>	<u>WT. %</u>	<u>GHS Symbols</u> <u>67/548 EEC</u> <u>Intrinsic property</u>	<u>GHS Statements</u> <u>Regulation (EC)</u> <u>No. 1272/2008(CLP)</u> <u>Status/reference number</u>
Coal tar (may include below chemicals)	8007-45-2	<40%	GHS05-GHS07-GHS07-GHS08-GHS09 Carc. Cat 1;R45 Muta. Cat.2 R46, Repr. Cat 2 R60,R61, N;R50/53 Carcinogen PBT vpvB	H225-315-319-332-335-340-350-351-360FD-361FD-373-400-410 TYPE: (1),(2),(3),(4), Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Acenaphthylene	83-32-9	---	Carcinogen PBT vPvB	Candidate,, ED68/2009 Candidate, ED68/2009 Candidate, ED68/2009
Anthracene	120-12-7	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Benzene	71-43-2	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Benzo(a)pyrene	50-32-8	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Benzo(a)anthracene	56-55-3	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Benzo(b)fluoranthene	205-99-2	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Chrysene	218-01-9	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/200
Dibenzofuran	132-64-9	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
Fluoranthene	206-44-0	---	Carcinogen PBT vPvB	Candidate, ED/68/2009 Candidate, ED/68/2009 Candidate, ED/68/2009
B-methylnaphthalene	91-57-6	---	Carcinogen PBT	Candidate, ED/68/2009 Candidate, ED/68/2009

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				vPvB	Candidate, ED/68/2009
Naphthalene	91-20-3	---		- Carcinogen	Candidate, ED/68/2009
				PBT	Candidate, ED/68/2009
				vPvB	Candidate, ED/68/2009
Phenanathrene	85-01-8	---		-----	Candidate, ED/68/2009
				Carcinogen	Candidate, ED/68/2009
				PBT	Candidate, ED/68/2009
				vPvB	Candidate, ED/68/2009

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

Coal Tar as a whole is not listed on NJ Right-to-Know. However, individual components of the products are listed.

PENNSYLVANIA RIGHT-TO-KNOW

Coal Tar as a whole is not listed on PA Right-to-Know. However, individual components of the products are listed.

CALIFORNIA PROPOSITION 65 CARCINOGENS

Coal Tar as a whole is not listed on CA Right-to-Know. However, individual components of the products are listed.

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Xylene, Anthracene, Benzene, benzo(a)pyrene, Naphthalene, others may be included as an ingredient in coal tar

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations.

WHMIS Class: Coal Tar (listed as tar decanter sludge) listed as a **D2A**

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: > Restricted to professional users.

Other EU regulations:

Sevesco category: This product is controlled under Sevesco III Directive.

Safety Data Sheet

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

Printing Date: 1/19/2015

Revision: 119/2015

Trade Name: E100-PC2™ - Coal Tar Epoxy – Part B

SECTION 16 Other information

Revision Date: 1/13/2015

Supersedes Date: New SDS

Datasheet produced by: Elite Crete Systems

HMIS Ratings:

Health:	3	Flammability:	1	Reactivity:	0	Personal Protection:	X
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Volatile Organic Compounds, gr/ltr: 100

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/ REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin
dermal	
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332 (inhalation)	Harmful if inhaled.
H335 (respiratory)	May cause respiratory irritation. (respiratory tract irritation)
H340	May cause genetic defects.
H341	Suspected of causing genetic defects.
H350	May cause cancer
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H361FD	Suspected of damaging fertility, Suspected of damaging the unborn child
H373 ears	May cause damage to organs through prolonged or repeated exposure (ears)
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects.

FULL TEXT OF CLASSIFICATIONS (CLP/GHS)

Acute Tox 4, H302	ACUTE TOXICITY (oral) – Category 4
Acute tox. 4, H312	ACUTE TOXICITY (dermal) – Category 4

Safety Data Sheet

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

Printing Date: 1/19/2015

Revision: 119/2015

Trade Name: E100-PC2™ - Coal Tar Epoxy – Part B

Acute Tox 4, H332	ACUTE TOXICITY (inhalation) – Category 4
Aquatic Acute 1, H400	AQUATIC HAZARD (ACUTE) – Category 1
Aquatic Chronic 1 H410	AQUATIC HAZARD (LONG TERM) – Category 1
Aquatic Chronic 2 H411	AQUATIC HAZARD (LONG TERM) – Category 2
Aquatic Chronic 3 H412	AQUATIC HAZARD - Category 3
Asp. Tox. 1 H304	ASPIRATION HAZARD – Category 1
Carc. 1A H350	CARCINOGENICITY – Category 1A
Carc. 1B H350	CARCINOGENICITY – Category 1B
Carc. 2 H351	CARCINOGENICITY – Category 2
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION – category 1
Eye Irrit. 2 H319.	SERIOUS EYE DAMAGE/ EYE IRRITATION – category 2
Flam. Liq. 2 H225	FLAMMABLE LIQUIDS – Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS – Category 3
Muta. 1B H340	GERM CELL MUTAGENICITY – Category 1B
Muta. 2 H341	GERM CELL MUTAGENICITY – Category 2
Repro. 1B H360FD	TOXIC TO REPRODUCTION (Fertility and unborn child) – Category 1B
Repro. 2 H361FD	TOXIC TO REPRODUCTION (Fertility and Unborn child) – Category 2
Skin Corr. 1B H314	SKIN CORROSION/IRRITATION – Category 1B
Skin Irrit.. 2 H315	SKIN CORROSION/IRRITATION – Category 2
Skin Sens. 1 H317	SKIN SENSITIZATION – Category 1
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 2
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) –(ears) Category 2
STOT RE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) –(Respiratory tract) Category 3

GHS hazard statements:

Aspiration hazard category 1	H304: May be fatal if swallowed and enters airways.
Skin irritation, category 2 reaction.	H315+H317: Causes skin irritation. May cause allergic skin reaction.
Eye irritation category 2 damage.	H319+H318: Causes serious eye irritation. Causes serious eye damage.
Acute Toxicity, Inhalation Category 4	H332: Harmful if inhaled
STOT, single exposure category 3 RTI	H335: May cause respiratory irritation
Carcinogenicity category 2 STOT, repeated exposure category 2	H351+H350: Suspected of causing cancer. May cause cancer.
Toxic to reproduction (fertility and unborn child) Category 1B	H373: May cause damage to organs through prolonged or repeated exposure
Aquatic hazard category 1	H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P202: Do not handle until all safety instructions and precautions have been read and understood
- 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

Safety Data Sheet

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

Printing Date: 1/19/2015

Revision: 119/2015

Trade Name: E100-PC2™ - Coal Tar Epoxy – Part B

P271: Use only in well ventilated area.
 P273: Avoid release to the Environment
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P301+P310: IF SWALLOWED: Immediately call a poison center/doctor/physician
 P303+P361+P353: IF ON SKIN (or hair):Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P308+P313: IF exposed or concerned: Get medical advise/ attention.
 P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 P314: Get medical advice/attention if you feel unwell.
 P321: Specific treatment see first aid on this label.
 P331: DO NOT INDUCE vomiting
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 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+P223+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 P405: Store locked up.

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS07



GHS08



GHS02



GHS05



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.