

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	EC-FCU-CF (A)
Other means of identification:	None
Recommended use:	Concrete crack filler, fast cure resin
Manufactured by:	Elite Coatings Canada Inc. 9805 Horton Road SW Calgary, AB T2V 2X5 Canada
Email:	info@elitecoatings.ca
Prepared by:	The Health, Safety and Environmental Department of Elite Coatings Canada Inc.
Telephone number of preparer:	+1 (403) 397 6355
Emergency telephone number:	24-Hour Emergency Telephone Number Canada (CANUTEC): +1 (613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification of hazardous product

- Flammable liquids (Category 4)
- Aspiration hazard (Category 1)
- Carcinogenicity (Category 2)
- Serious eye damage/irritation (Category 2A)
- Specific target organ toxicity-single exposure (Category 3 – central nervous system)

GHS Label Elements

Hazard Pictograms/symbols



Signal Word: DANGER

Hazard and Precautionary Statements:

- **H319** Causes serious eye irritation
- **H327** Combustible liquid
- **H304** May be fatal if swallowed and enters airways
- **H336** May cause drowsiness or dizziness

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- **H351** Suspected of causing cancer

P201 Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. **P261** Avoid breathing mist/vapours. **P271** Use only outdoors or in a well-ventilated area. **P273** Avoid release to the environment. **P280** Wear protective gloves/ protective clothing/ eye protection/ face protection. **P264** Wash with plenty of water and soap thoroughly after handling. **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. **P337 + P311** If eye irritation occurs: Call a POISON CENTER or doctor/physician. **P301 + P310 IF SWALLOWED:** Immediately call a POISON CENTER/doctor. **P304 + P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **P312** Call a POISON CENTER or doctor/physician if you feel unwell. **P331** Do NOT induce vomiting. **P370 + P378** In case of fire: Use foam, dry chemical, carbon dioxide or water fog to extinguish. **P391** Collect spillage. **P403 + P233** Store in a well-ventilated place. Keep container tightly closed. **P403 + P235** Store in a well-ventilated place. Keep cool. **P405** Store locked up. **P501** Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known: None known

GHS Special Labeling: None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration (%)
tetrahydroxypropylethylenediamine	102-60-3	30 – 50 %
Heavy aromatic solvent naphta	64742-94-5	40 – 60 %
Naphthalene	91-20-3	5 – 10 %

SECTION 4. FIRST AID MEASURES

Inhalation	IF INHALED: Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
Skin Contact	IF ON SKIN: Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
Eye Contact	IF IN EYES: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

Most important symptoms and effects (acute and delayed)

The most important known symptoms and effects are described in the labelling (section 2) and/or in section 11, Ingestion, Eye irritation. Symptoms may be delayed. Ingestion can cause headaches, drowsiness, and dizziness.

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Indication of any immediate medical attention and special treatment needed

Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

General Information

If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure the medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- **Suitable extinguishing media:** In case of fire: water fog, carbon dioxide, foam, or dry chemical.
- **Unsuitable extinguishing media:** straight stream of water.

Specific hazards arising from the hazardous product: Hazardous combustion products include incomplete combustion products, oxides of carbon, smoke, fumes.

Special protective equipment and precautions for fire-fighting: Self-contained breathing apparatus and turn-out gear must be worn in case of fire.

Further Information: Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. Dyke to control spillage and prevent environmental contamination.

Methods and materials for containment and cleaning up

Ventilate contaminated area. Absorb spill with suitable absorbent material or recover free liquid with suitable pumps. Shovel material and store in closed containers for recycling or disposal.

Environmental Precautions

Do not discharge into drains/surface waters/groundwater.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Provide suitable exhaust ventilation. Avoid breathing product vapor. Danger of bursting when sealed gastight. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from sources of

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ignition, heat, oxidising agents.

Storage stability: Storage temperature: 16-27°C. Protect against humidity.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters (biological limit values or exposure limit values and source of those values)

Exposure limits:

CAS 102-60-3	No exposure limits noted for the ingredient(s)			
CAS 64742-94-5	OSHA PEL	400ppm (petroleum distillates, naphtha)		
CAS 91-20-3	Ontario TWAEV ACGIH TLV OSHA PEL	10ppm 52 mg/m ³ 10ppm 52 mg/m ³ 10ppm 52 mg/m ³	Ontario STEV ACGIH STEL OSHA STEL	15ppm 78 mg/m ³ 15ppm 78 mg/m ³ 15ppm 78 mg/m ³ (California)

Engineering Controls

Provide good local exhaust ventilation to control vapour/mist. Eye wash facilities and emergency showers must be available when handling this product. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of. Keep away from food, drink and animal feeding stuffs.

Personal Protective Equipment

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear appropriate chemical resistant protective gloves. Wear tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists. Wear appropriate protective clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eyewash fountains and safety showers are recommended in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State/ Appearance/ Color:	Liquid, Black	Vapour Pressure:	Not established
Odour:	Faintly aromatic	Vapour Density:	Not established
Odour threshold:	Not applicable	Relative Density:	0.945 (g/ml)
pH:	Not applicable	Solubility in water:	Not available
Melting/freezing point:	-43°C (-45°F)	Partition coefficient-n-octanol/water:	Not established
Initial boiling point/range:	160-215°C (320-419°F)	Auto-ignition temperature:	>443°C (830°F)

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Flash point(closed cup):	>62°C (144°F)	Thermal decomposition temperature:	>260°C
Evaporation rate:	0.06 (butyl acetate =1)	Viscosity:	Not available
Flammability:	Combustible liquid	VOC:	509 g/L
Upper and lower flammability/explosive limits	Lower limit: 0.6% Upper limit: 7%	Other:	None known

SECTION 10. STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: This product is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid moisture. Open flames and high energy ignition sources. Unintended isocyanate substances.

Incompatible materials: Strong acids, strong oxidizers.

Hazardous decomposition products: Unknown

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure (inhalation, ingestion, skin and eye contact):

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Symptoms related to the physical, chemical and toxicological characteristics:

- **Assessment of acute toxicity:** Inhalation of vapour may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function. Inhalation exposure well above the PEL may result additionally in eye irritation. Headache, chemical bronchitis, asthma-like findings or pulmonary edema. Irritating to eyes, respiratory system and skin. Skin contact may result in dermatitis, either irritative or allergic.
- **Assessment of chronic toxicity:** The substance may cause damage to the olfactory epithelium after repeated inhalation. The substance may cause damage to the lung after repeated inhalation. These effects are not relevant to humans at occupational levels of exposure.

Delayed and immediate effects (chronic effects from short- term and long-term exposure):

- **Skin Sensitization** – No data available;
- **Respiratory Sensitization** – No data available;
- **Germ Cell Mutagenicity** – Results could not be confirmed in tests with mammals;
- **Carcinogenicity** – Napthalene is classified as a possible human carcinogen (IARC 2B);
- **Reproductive Toxicity** – No data available;
- **Specific Target Organ Toxicity — Single Exposure** – May cause drowsiness or dizziness;
- **Specific Target Organ Toxicity — Repeated Exposure** – No data available;
- **Aspiration Hazard** – No aspiration hazard expected;
- **Health Hazards Not Otherwise Classified** – No data available.

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Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀):

CAS 102-60-3	LD ₅₀ , Oral- Rat – 3280 mg/kg LD ₅₀ , Dermal- Rabbit – >2000 mg/kg
CAS 64742-94-5	LD ₅₀ , Oral- Rat – 7050 mg/kg LC ₅₀ , Inhalation – Rat – 5100 ppm LD ₅₀ , Dermal- Rabbit – >2000 mg/kg
CAS 91-20-3	LD ₅₀ , Oral- Rat – 1870 mg/kg LC ₅₀ , Inhalation – Rat – 106-142 ppm LD ₅₀ , Dermal- Rabbit – >2500 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information):

There is a high probability that the product is not acutely harmful to aquatic organisms.

Product	Species	Result
CAS 102-60-3	LC ₅₀ Leuciscus idus	>2000 mg/L – 96h
CAS 6742-94-5	LC ₅₀ Pimephelas promelas LC ₅₀ Oncorhynchus mykiss EC ₅₀ Daphnia magna	19 mg/l – 96 h 2.34 mg/l – 96 h 0.95 mg/l – 48 h
CAS 91-20-3	LC ₅₀ Pimephelas promelas LC ₅₀ Oncorhynchus mykiss EC ₅₀ Daphnia magna	41 mg/l – 96 h 3.0 mg/l – 96 h 1.1 mg/l – 48 h

Persistence and degradability: Partly biodegradable. The product is unstable in water.

Bioaccumulative potential: Significant accumulation in organisms is not to be expected.

Mobility in soil: The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Information on safe handling for disposal/methods of disposal/contaminated packaging: Do not discharge substance/product into sewer system. Avoid release to the environment. Dispose of contents/container into safe container in accordance with local, regional or national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

Not classified as a dangerous good under transport regulations.

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UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

Not classified as a dangerous good under transport regulations.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

Not classified as a dangerous good under transport regulations.

Special Precautions(transport/conveyance): None

Environmental hazards (IMDG or other): None

Bulk transport (usually more than 450L in capacity): Classified as combustible under US DOT regulations. Labeling required for single packages ≥ 119 US gal /450 to include Combustible symbol and Proper Shipping Name.

SECTION 15. REGULATORY INFORMATION

Safety/health Canadian regulations specifics: Refer to section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics: Refer to section 3 for ingredient(s) of the DSL.

Safety/health/environmental outside regulations specifics: None

SECTION 16. OTHER INFORMATION

Disclaimer: NOTICE TO READER:

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END OF S.D.S.

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