**SAFETY DATA SHEET (SDS)**

### Section 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>CRACK FILLER FAST DRY EPOXY, Part B (Top Coat Epoxy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>FF-CF-B</td>
</tr>
<tr>
<td>Recommended use and restrictions on use</td>
<td>Floor Coating</td>
</tr>
<tr>
<td>Initial supplier identifier</td>
<td>Chemtec 913 Michelin Laval Québec (Canada) H7L-5B6 450-629-1717</td>
</tr>
<tr>
<td>Emergency telephone number/restriction on use</td>
<td>Canada – CANUTEC Number 24 hours 613-996-6666</td>
</tr>
</tbody>
</table>

### Section 2. Hazard Identification

**Classification of hazardous product (name of the category or subcategory of the hazard class)**

- Flammable liquids (Category 4)
- Acute toxicity, oral, dermal and inhalation (Category 4)
- Skin corrosion/irritation (Category 1A)
- Skin sensitisation (Category 1)
- Serious eye damage/eye irritation (Category 1)
- Sensitisation respiratory (Category 1)
- Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)
- Reproductive toxicity (Category 1A)
- Reproductive toxicity, effects on or via lactation (Additional category)
- Hazardous to the aquatic environment short/long term hazard (Category 2)

**Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)**

#### Warning

- H227 Combustible liquid
- H302+H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin irritation
- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H360 May damage fertility or the unborn child
- H362 May cause harm to breast-fed children
- H411 Toxic to aquatic life with long lasting effects

#### Prevention

- 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. P242 Avoid breathing dust/fume/gas/mist/vapors/spray. P263 Avoid contact during pregnancy and while nursing. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear gloves/protective clothing/goggles/eye protection/face protection. P284 (In case of inadequate ventilation) wear respiratory protection.

#### Response

- IF SWALLOWED: P301 + P312 Immediately call a Poison Center/doctor if you feel unwell. P330 Rinse mouth. P331 Do NOT induce vomiting. IF ON SKIN/ OR HAIR: P303 + P361 + P353 Take off immediately all contaminated clothing. Wash with plenty of water (or shower). P362 + P364 Take off contaminated clothing and wash it before reuse. IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. IF EXPOSED OR CONCERNED: P308 + P311 Call a POISON CENTER/doctor. P340 Remove person to fresh air and keep comfortable for breathing. IF IN CASE OF FIRE P370 + P378 Use manufacturerupplier or the competent authority to specify appropriate media. ENVIRONMENT P391 Collect spillage.

#### Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

#### Disposal

- P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**Other hazards known**

- None
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name (common name/synonyms)</th>
<th>CAS number or other</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>10 – 20 %</td>
</tr>
<tr>
<td>M-Phenylenediamine(Methylamine)</td>
<td>1477-55-0</td>
<td>10 – 20 %</td>
</tr>
<tr>
<td>L'isophorone Diamine</td>
<td>2855-13-2</td>
<td>5 – 15 %</td>
</tr>
<tr>
<td>Paratertiarybutylphenol</td>
<td>98-54-4</td>
<td>2 – 5 %</td>
</tr>
<tr>
<td>Hydroxy Benzoic acid</td>
<td>65-85-0</td>
<td>0.5 – 1.5 %</td>
</tr>
<tr>
<td>Nonylphénol</td>
<td>84852-15-3</td>
<td>10 – 20 %</td>
</tr>
<tr>
<td>Biphénol A</td>
<td>80-05-7</td>
<td>1 – 5 %</td>
</tr>
<tr>
<td>2-piperazin-1-ethylamine</td>
<td>140-31-8</td>
<td>3 – 7 %</td>
</tr>
<tr>
<td>Benzyldimethylamine</td>
<td>103-83-3</td>
<td>0.5 – 1.5 %</td>
</tr>
<tr>
<td>Carbonate de calcium</td>
<td>471-34-1</td>
<td>10 – 20 %</td>
</tr>
<tr>
<td>Stearine</td>
<td>67701-08-0</td>
<td>0 – 1 %</td>
</tr>
<tr>
<td>Synthetic Amorphous Silica (SAS)</td>
<td>7631-86-9</td>
<td>&lt; 10 %</td>
</tr>
</tbody>
</table>

Section 4. First-Aid Measures

Inhalation
IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. If symptoms persist, seek medical attention.

Ingestion
IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.

Skin contact
IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard or decontaminate footwear before reuse.

Eye contact
IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Do not attempt to neutralize with chemical agents.

Most important symptoms and effects (acute or delayed) Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children.

Indication of immediate medical attention/special treatment In all cases, call a doctor. Do not forget this document.

Section 5. Fire-Fighting Measures

Specific hazards of the hazardous product (hazardous combustion products)
Smoke, fume, oxides of carbon and nitrogen.

Suitable and unsuitable extinguishing media
In case of fire: Use Carbon dioxide (CO2), dry chemical and alcohol resistant foam.

Special protective equipment and precautions for fire-fighters
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up
Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.

Section 7. Handling and Storage

Precautions for safe handling
Obtain special instructions before use/do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy and while nursing. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protection clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory protection.

Conditions for safe storage, including any incompatibilities
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labeled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C.
### Section 8. Exposure Controls/Personal Protection

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

Exposure limits: ACGIH – TLV-TWA CAS 471-34-1: 5 mg/m³ (breathable fraction); CAS 1477-55-0: 0.1 mg/m³

**Appropriate engineering controls**

Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.

**Individual protection measures/personal protective equipment**

Gloves: Neoprene gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance, physical state/colour</th>
<th>Paste</th>
<th>Vapour pressure</th>
<th>&lt; 5hPa (50°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour Amine</td>
<td></td>
<td>Vapour density</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8 – 11</td>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>Not available</td>
<td>Partition coefficient - n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not available</td>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100°C</td>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solids and gases)</td>
<td>Not available</td>
<td>VOC</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper and lower flammability/explosive limits</td>
<td>Not available</td>
<td>Other</td>
<td>None known</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity

**Reactivity**

Stable under normal conditions.

**Chemical stability**

Yes, Stable under the recommended storage and handling conditions prescribed.

**Possibility of hazardous reactions**

Non under normal conditions of storage and use.

**Conditions to avoid (static discharge, shock or vibration)**

Excess heat.

**Incompatible materials**

Avoid contact with oxidizing materials, acids, acrylates, metals, nitriles, ketones, hydrocarbons, aldehydes, alcohol.

**Hazardous decomposition products**

Ammonia, amines, aromatic compounds, hydrocarbons, phenolic.

### Section 11. Toxicological Information

**Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)**

Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children.

**Symptoms related to the physical, chemical and toxicological characteristics**

No specific information available.

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

Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – May cause severe respiratory system irritation;

Germ Cell Mutagenicity – Not available; Carcinogenicity – Not available; Reproductive Toxicity – Not available;

Specific Target Organ Toxicity — Single Exposure – Not available; Specific Target Organ Toxicity — Repetitive Exposure – Not available;

Aspiration Hazard – May cause respiratory sensitization with asthma like symptoms in susceptible individuals. Repeated or prolonged inhalation may cause toxic effects; Health Hazards Not Otherwise Classified – No data available.

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

<table>
<thead>
<tr>
<th>CAS 100-51-6 LD₅₀ Oral</th>
<th>Rat 1230 mg/kg; Rabbit 1040 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation – Mouse 5620 ppm 1hr/500 mg/m³;</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 1477-55-0 LD₅₀ Oral</td>
<td>Rat 930 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation - Rat 700 ppm 1hr;</td>
</tr>
<tr>
<td>CAS 2855-13-2 LD₅₀ Oral</td>
<td>Rat 1030 mg/kg; LD₅₀ Dermal – Rabbit 1800 mg/kg; LC₅₀ Inhalation Not available;</td>
</tr>
<tr>
<td>CAS 98-54-4 LD₅₀ Oral</td>
<td>Rat 4000 mg/kg; LD₅₀ Dermal – Rat 2318 mg/kg; LC₅₀ Inhalation Not available;</td>
</tr>
<tr>
<td>CAS 65-85-0 LD₅₀ Oral</td>
<td>Rat 2565 mg/kg; LD₅₀ Dermal – Rabbit &gt;2000 mg/kg; LC₅₀ Inhalation – Rat &gt;12.2 mg/L 4hrs (dust);</td>
</tr>
<tr>
<td>CAS 84852-15-3 LD₅₀ Oral</td>
<td>Rat - 1300 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation Not available;</td>
</tr>
<tr>
<td>CAS 103-83-3 LD₅₀ Oral</td>
<td>Not available; LD₅₀ Dermal Not available; LC₅₀ Inhalation Not available;</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial information)

**Fish toxicity**
CAS:100-51-6: LC50: > 100 mg/L (Oryzias latipes, 96h), NOEC: 5.1 mg/L (Oryzias latipes, 14d); CAS:1477-55-0: LC50: 75 mg/L (Golden orfe, 96h); CAS: 2855-13-2: LC50: 110 mg/L (Leuciscus idus, 96h); CAS: 98-54-4: LC50: 5.1 mg/L (96h, Oryzias latipes); CAS: 65-85-0: LC50: 47.3 mg/L (Salmo gairdneri, 96h); CAS: 84852-15-3: LC50: 0.128 mg/L (Pimephales promelas, 96h).

**Invertebrate toxicity**
CAS: 100-51-6: EC50: 230 mg/L (48h, Daphnia magna), NOEC: 51 mg/L (Daphnia magna, 21d); CAS: 1477-55-0: 15.2 mg/L (48h, Daphnia magna), NOEC: 4.7 mg/L (Daphnia magna, 21d); CAS: 2855-13-2: EC50: 23 mg/L (48h, Daphnia magna), NOEC: 3.0 mg/L (Daphnia magna, 21d); CAS: 98-54-4: EC50: 3.4 mg/L (48h, Daphnia magna), NOEC: 0.73 mg/L (Daphnia magna, 21d); CAS: 65-85-0: EC50: 100 mg/L (48h, Daphnia magna, pH: 8.4); CAS: 84852-15-3: EC50: 0.0207 mg/L (Hyalella azteca, 96h).

**Aquatic plant and Algae toxicity**
CAS: 100-51-6: EC50: 770 mg/L (Pseudokirchneriella subcapita, 72h); CAS: 1477-55-0: EC50: 33.3 mg/L (Selenastrum capricornutum, 72h); CAS: 2855-13-2: EC50: > 50 mg/L (Scenedesmus subspicatus, 72h); CAS: 98-54-4: EC50: 22.7 mg/L (Selenastrum capricornutum, 72h); CAS: 65-85-0: Inhibition starts at 1630 mg/L (Scenedesmus, quadricauda, 96h, pH: 7); CAS: 84852-15-3: EC50: 0.0563 mg/L (Scenedesmus subspicatus).

**Persistence and degradability**
CAS:100-51-6: Readily biodegradable, 92-96% after 14 days.; CAS: 1477-55-0 Not readily biodegradable. 49% after 28 days; CAS: 2855-13-2: Not readily biodegradable (8% after 28 days); CAS: 98-54-4 readily biodegradable; CAS: 65-85-0: readily biodegradable (> 90% after 28d); CAS: 84852-15-3: readily biodegradable (62% after 28 days).

**Bioaccumulative potential**

**Mobility in soil**
No data available

**Other adverse effects**
Toxic to aquatic life with long lasting effects.

Section 13. Disposal Considerations

**Information on safe handling for disposal/methods of disposal/contaminated packaging**
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**
NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735; HAZARD CLASS: 8; PACKING GROUP:III.

**UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)**
NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735; HAZARD CLASS: 8; PACKING GROUP: III. MARINE POLLUTANT: No

**UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)**
NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735; HAZARD CLASS:8; PACKING GROUP: III.

**Special precautions (transport/conveyance)** Can be shipped as LIMITED QUANTITY according to TDG.

**Environmental hazards (IMDG or other)** None

**Bulk transport (usually more than 450 L in capacity)** N/A according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.

Section 15. Regulatory Information

**Safety/health Canadian regulations specifications**
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

**Environmental Canadian regulations specifications**
Refer to Section 3 for ingredient(s) of the DSL.

**Safety/health/environmental outside regulations specifications**
United States OSHA information: This product is regulated according to OSHA (29 CFR).
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3.

Section 16. Other Information

Date of the latest revision of the safety data sheet: February 04, 2018 - version 1

References
Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.europe.eu

Abbreviations
ACGIH American Conference of Governmental Industrial Hygienists
ATE Acute toxicity estimate
CAS Chemical Abstract Service
DSL Domestic Substance List
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LC Lethal concentration
LD Lethal Dosage
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program (U.S.A.)
OSHA Occupational Safety and Health Administration (U.S.A.)
PEL Permissible Exposure Limit
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>TDG</td>
<td>Transport of dangerous goods in Canada</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
</tbody>
</table>

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