



**SAFETY DATA SHEET (SDS)**

**Section 1. Identification**

<b>Product identifier</b>	EPOXY CRACK FILLER, Part B (Top Coat Epoxy)
<b>Other means of identification</b>	FF-CF-B
<b>Recommended use and restrictions on use</b>	Epoxy sealing gel
<b>Initial supplier identifier</b>	LabSurface. 101-1079, rue des Forges, Terrebonne, J6Y 0J9, Qué (Canada) Tél. (450) 966-9000
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC Number 24 hours 613-996-6666

**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 1)  
 Skin sensitisation (Category 1)  
 Sensitisation respiratory (Category 1)  
 Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)  
 Reproductive toxicity (Category 1B)  
 Reproductive toxicity, effects on or via lactation (Additional category)  
 Hazardous to the aquatic environment acute hazard (Category 2)  
 Hazardous to the aquatic environment long term hazard (Category 1)

**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 reaction  
 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  
 H401 Toxic to aquatic life  
 H410 Very 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 P260+P261 Do not/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/gloves/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: P302 + P352 Wash with plenty of water. P312 Call a doctor if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 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. P310 Immediately call a POISON CENTER or a doctor.  
 IF EXPOSED OR CONCERNED: P308 + P313 Get medical advice/attention  
 IN CASE OF FIRE P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media  
 ENVIRONMENT P391 Collect spillage



<b>Storage</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.		
<b>Disposal</b> P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.		
<b>Other hazards known</b>	None	
<b>Section 3. Composition/Information on Ingredients</b>		
<b>Chemical name (common name/synonyms)</b>	<b>CAS number or other</b>	<b>Concentration (%)*</b>
Benzyl alcohol	100-51-6	10 – 20 %
M-Phenylenebis(Methylamine)	1477-55-0	5 – 15 %
Isophorone Diamine	2855-13-2	5 – 15 %
Nonylphenol	84852-15-3	30 – 50 %
Bisphenol A	80-05-7	1 – 5 %
2-piperazin-1-ethylamine	140-31-8	3 – 7 %
Synthetic Amorphous Silica (SAS)	7631-86-9	5 - 15 %
*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).		
<b>Section 4. First-Aid Measures</b>		
<b>Inhalation</b>	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.	
<b>Ingestion</b>	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.	
<b>Skin contact</b>	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.	
<b>Eye contact</b>	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.	
<b>Most important symptoms and effects (acute or delayed)</b>	Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. 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.	
<b>Indication of immediate medical attention/special treatment</b>	In all cases, call a doctor. Do not forget this document.	
<b>Section 5. Fire-Fighting Measures</b>		
<b>Specific hazards of the hazardous product (hazardous combustion products)</b> Smoke, fume, oxides of carbon and phenol.		
<b>Suitable and unsuitable extinguishing media</b> In case of fire: Use Carbon dioxide (CO <sub>2</sub> ), dry chemical, foam.		
<b>Special protective equipment and precautions for fire-fighters</b> 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.		
<b>Section 6. Accidental Release Measures</b>		
<b>Personal precautions, protective equipment and emergency procedures</b> 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.		
<b>Methods and materials for containment and cleaning up</b> 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.		
<b>Section 7. Handling and Storage</b>		
<b>Precautions for safe handling</b> 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/protective clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory protection.		
<b>Conditions for safe storage, including any incompatibilities</b> 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 1477-55-0: TWA not available; 0,1 mg/m<sup>3</sup> STEL; CAS 1477-55-0: 0.1 mg/m<sup>3</sup> ; CAS 7631-86-9 ACGIH – TLV-TWA No information available OSHA 20 mppcf TWA; 80 (%SiO<sub>2</sub>) mg/m<sup>3</sup> TWA; NIOSH 6 mg/m<sup>3</sup> TWA.

**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: Neopren 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**

<b>Appearance, physical state/colour</b>	Dough	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Ammonia	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	Not available
<b>pH</b>	8 – 11	<b>Solubility</b>	Not available
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	> 100 °C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	None known

**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, metals, nitrites, ketones, hydrocarbons, aldehydes, alcohol.

**Hazardous decomposition products**

Ammonia, amines, aromatic compounds, hydrocarbons, phenolics.

**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 reaction. 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 – Suspected of damaging fertility or the unborn child; Specific Target Organ Toxicity — Single Exposure – Not available; Specific Target Organ Toxicity — Repeated Exposure – Not available; Aspiration Hazard – May cause respiratory sensitization. Repeated or prolonged inhalation may cause toxic effects; Health Hazards Not Otherwise Classified – No data available.

**Numerical measures of toxicity (ATE; LD<sub>50</sub> & LC<sub>50</sub>)**

CAS 100-51-6 LD<sub>50</sub> Oral – Rat 1230 mg/kg; LD<sub>50</sub> Dermal – Rabbit 2000 mg/kg; LC<sub>50</sub> Inhalation – Mouse 5620 ppm 1hr/500 mg/m<sup>3</sup>; CAS 1477-55-0 LD<sub>50</sub> Oral – Rat 930 mg/kg; LD<sub>50</sub> Dermal – Rabbit 2000 mg/kg; LC<sub>50</sub> Inhalation - Rat 700 ppm 1hr; CAS 2855-13-2 LD<sub>50</sub> Oral - Rat 1030 mg/kg; LD<sub>50</sub> Dermal – Rabbit 1800 mg/kg; LC<sub>50</sub> Inhalation Not available; CAS 84852-15-3 LD<sub>50</sub> Oral - Rat - 1620 mg/kg; LD<sub>50</sub> Dermal – Rabbit 2000 mg/kg; LC<sub>50</sub> Inhalation Not available; CAS 80-05-7 LD<sub>50</sub> Oral - Rat - 3250 mg/kg; LD<sub>50</sub> Dermal – Rabbit 3000 mg/kg; LC<sub>50</sub> Inhalation Not



available; CAS 140-31-8 LD<sub>50</sub> Oral - Rat - 2140 mg/kg; LD<sub>50</sub> Dermal – Rabbit 800 mg/kg; LC<sub>50</sub> Inhalation Not available; CAS 7631-86-9 LD<sub>50</sub> Oral - Rat >5000 mg/kg; LD<sub>50</sub> Dermal Rabbit >2000 mg/kg; LC<sub>50</sub> Inhalation Rat >0.69 mg/l 4h; ATE not available in this document.

### Section 12. Ecological Information

#### Ecotoxicity (aquatic and terrestrial information)

**Fish toxicity** CAS:100-51-6: LC50: > 10 mg/L Bluegill (*lepomis macrochirus*) 96h; CAS:1477-55-0: LC50: 75 mg/L (Golden orfe.) 96h; CAS: 2855-13-2: LC50: 110 mg/L (*Leuciscus idus*), 96h; CAS: 7631-86-9: LC50: >10.000 mg/L (*Brachydanio rerio*) 96h.

**Invertebrate toxicity** CAS: 100-51-6: EC50: 230 mg/L (*Daphnia magna*) 48h; CAS:1477-55-0: 15.2 mg/L (*Daphnia magna*) 48h; CAS: 2855-13-2: EC50: 23 mg/L (*Daphnia magna*) 48h; CAS: 7631-86-9: EL50: > 10.000 mg/L (*Daphnia magna*) 24h.

**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: 7631-86-9: EL50: >10.000 mg/L (*Scenedesmus subspicatus*) 72h.

**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);

**Bioaccumulative potential** CAS: 1477-55-0: Not bioaccumulate (BCF: < 2.7)

**Mobility in soil** No data available

**Other adverse effects** Toxic to aquatic life. Very 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

UN 3267; CORROSIVE DOUGH BASIC ORGANIC, N.O.S. (Nonylphenol, Aminoethylpiperazine, Epoxy resin-Benzyl alcohol); CLASS: 8; PG: III

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

UN 3267; CORROSIVE DOUGH BASIC ORGANIC, N.O.S. (Nonylphenol, Aminoethylpiperazine, Epoxy resin-Benzyl alcohol); CLASS: 8; PG: III

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

UN 3267; CORROSIVE DOUGH BASIC ORGANIC, N.O.S. (Nonylphenol, Aminoethylpiperazine, Epoxy resin-Benzyl alcohol); CLASS: 8; PG: III

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

**Environmental hazards (IMDG or other)** Marine Pollutant

**Bulk transport (usually more than 450 L in capacity)** None

### Section 15. Regulatory Information

**Safety/health Canadian regulations specifics** 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

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. California Proposition 65: This product does not contain an ingredient known to the State of California to cause cancer or other reproductive harm.

### Section 16. Other Information

**Date of the latest revision of the safety data sheet** March 10, 2021 - version 02

**References** Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.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
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value



TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

DISCLAIMER: Labsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product.