

SAFETY DATA SHEET (SDS)

Section 1. Identification		
Product identifier	EPOXY CRACK FILLER, Part B (Top Coat Epoxy)	
Other means of identification FF-CF-B		
Recommended use and restrictions on use Epoxy sealing gel		
Initial supplier identifier E4E. (717) 645-7567		

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



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
Other	nazarus	KHOWH	None

Section 3. Composition/Information on Ingredients			
Chemical name (common name/synonyms) CAS number or other Concentration (%)*			
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).

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	ye 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 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.

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 phenol.

Suitable and unsuitable extinguishing media

In case of fire: Use Carbon dioxide (CO₂), dry chemical, 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/protective 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 1477-55-0: TWA not available; 0,1 mg/m³ STEL; CAS 1477-55-0: 0.1 mg/m³; CAS 7631-86-9 ACGIH – TLV-TWA No information available OSHA 20 mppcf TWA; 80 (%SiO₂) mg/m³ TWA; NIOSH 6 mg/m³ 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			
Appearance, physical state/colour Dough	Vapour pressure Not available		
Odour Ammonia	Vapour density Not available		
Odour threshold Not available	Relative density Not available		
pH 8-11	Solubility Not available		
Melting/freezing point Not available	Partition coefficient - n-octanol/water Not available		
Initial boiling point/range Not available	Auto-ignition temperature Not available		
Flash point > 100 °C	Decomposition temperature Not available		
Evaporation rate Not available	Viscosity Not available		
Flammability (solids and gases) Not available	VOC Not available		
Upper and lower flammability/explosive limits Not available Other 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; LD₅₀ & LC₅₀)

CAS 100-51-6 LD₅₀ Oral – Rat 1230 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation – Mouse 5620 ppm 1hr/500 mg/m³; CAS 1477-55-0 LD₅₀ Oral – Rat 930 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation - Rat 700 ppm 1hr; CAS 2855-13-2 LD₅₀ Oral - Rat 1030 mg/kg; LD₅₀ Dermal – Rabbit 1800 mg/kg; LC₅₀ Inhalation Not available; CAS 84852-15-3 LD₅₀ Oral - Rat -1620 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation Not available; CAS 80-05-7 LD₅₀ Oral - Rat -3250 mg/kg; LD₅₀ Dermal – Rabbit 3000 mg/kg; LC₅₀ Inhalation Not



available; CAS 140-31-8 LD₅₀ Oral - Rat - 2140 mg/kg; LD₅₀ Dermal - Rabbit 800 mg/kg; LC₅₀ Inhalation Not available; CAS 7631-86-9 LD₅₀ Oral - Rat >5000 mg/kg; LD₅₀ Dermal Rabbit >2000 mg/kg; LC₅₀ 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;

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		st 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
LABC Laterrational Acceptation R

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

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