

Section 1: Identification

PRODUCT NAME: TF Epoxy Part B

OTHER NAMES: Not Applicable

PRODUCT USE: Coatings. Paints.

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Section 2: Hazard Identification

HAZARD CLASSIFICATION (GHS): Acute inhalation toxicity 4. Acute oral toxicity 4. Eye Damage 1. Skin Corrosion 1. Skin Sensitizer 1. Reproductive toxicity 2. Hazardous to the aquatic environment, short term, acute, 1. Hazardous to the aquatic environment, long term, chronic, 1.

GHS LABEL ELEMENTS:

Signal Word:

DANGER

Pictogram(s):



HAZARD STATEMENT(S): H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H361 Suspected of damaging fertility of the unborn child. H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S): P201 Obtain special instructions before use. P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while 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 protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. Continue rinsing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance to federal rules, laws and regulations.

Section 3: Composition/ Information on Ingredients

Components	CAS#	Concentration (%)
Benzyl Alcohol	100-51-6	30-60
4-Nonyl Phenol, Branched	84852-15-3	10-30
Polyoxypropylene Polyamines	9046-10-0	10-30
Isophorone Diamine	2855-13-2	5-10
1,3-Cyclohexanedimethanamine	2579-20-6	3-7
M-Phenylenebis(Methylamine)	1477-55-0	3-7

Section 4: First-Aid Measures

SKIN CONTACT: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do so. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

INHALATION: If inhaled remove to fresh air. If there is difficulty breathing, provide oxygen. Consult a physician if effects occur.

INGESTION: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Section 5: Fire- Fighting Measures

EXTINGUISHING MEDIA: Dry chemical. Carbon dioxide. Foam. Water.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus and full protective gear.

HAZARDOUS COMBUSTION PRODUCTS: Other irritating, corrosive and toxic gases.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Avoid runoff into storm sewers, ditches and waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP: Corrosive. Avoid personal contact and breathing vapors or mists. Clean up spills immediately observing precautions in the protective equipment section. Contain spill with dike if necessary. Absorb in suitable inert material. Collect spill with a non-sparking tool. Place into a suitable container for disposal. After removal, flush spill area with soap and water to remove trace residue.

Section 7: Handling and Storage

HANDLING: Store and handle in accordance with the existing laws and regulations. Avoid contact with eyes, skin and clothing. Avoid inhalation. Use adequate ventilation.

STORAGE: Store in a well ventilated area. Store away from fire hazards/sources. Store away from water supply and drainage. Keep away from acids, oxidizers.

Section 8 Exposure Controls/ Personal Protection

EXPOSURE LIMITS:

Benzyl Alcohol	100-51-6	
4-Nonyl Phenol, Branched	84852-15-3	
Polyoxypropylene Polyamines	9046-10-0	
Isophorone Diamine	2855-13-2	
1,3-Cyclohexanedimethanamine	2579-20-6	
M-Phenylenebis(Methylamine)	1477-55-0	
	USA NIOSH (TWA) (mg/m ³)	Not Established
	Alberta OEL TWA (mg/m ³)	Not Established
	British Columbia OEL TWA (mg/m ³)	Not Established
	Manitoba OEL TWA (mg/m ³)	Not Established
	New Brunswick OEL TWA (mg/m ³)	Not Established
	Nova Scotia OEL TWA (mg/m ³)	Not Established
	Nunavut OEL TWA (mg/m ³)	Not Established
	NWT OEL TWA (mg/m ³)	Not Established
	Ontario OEL TWA (mg/m ³)	Not Established
	PEI OEL TWA (mg/m ³)	Not Established
	Quebec VEMP (mg/m ³)	Not Established
	Saskatchewan OEL TWA (mg/m ³)	Not Established
	Yukon OEL TWA (mg/m ³)	Not Established

ENGINEERING CONTROLS: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.

RESPIRATORY PROTECTION:	A chemical cartridge respirator with full face piece is recommended.
HAND PROTECTION:	Wear impervious gloves to minimize contact with skin.
EYE PROTECTION:	Wear appropriate glasses or splash goggles as approved by the CSA.
SKIN/ BODY PROTECTION:	Wear protective work clothing and work shoes.
HYGIENE:	Wash hands thoroughly after handling and before eating.
OTHER:	None

Section 9: Physical and Chemical Properties

a) Appearance:	Liquid. Pale straw.
b) Odor:	Amine.
c) Odor threshold:	No data available
d) pH:	Not determined.
e) Melting/Freezing point:	Not determined.
f) Boiling point	>200°C
g) Flash point:	>94 °C
h) Evaporation rate:	Not available
i) Flammability:	Not available
j) Flammability Limits:	Not available
k) Vapor pressure:	<5 mm hg @ 20 °C
l) Relative density:	1.04g/cm ³
m) Water solubility:	Not determined
n) Partition coefficient:	Not determined
o) Auto-ignition temperature:	No data available
p) Decomposition temperature:	No data available
q) Viscosity:	Not determined

Section 10: Stability and Reactivity

REACTIVITY:	Hazardous reactions will not occur under normal conditions.
CHEMICAL STABILITY:	Stable under normal temperatures and pressures.

POSSIBILITY OF

HAZARDOUS REACTIONS: Hazardous polymerization has not been reported.

CONDITIONS TO AVOID: Extremely high or low temperatures.

INCOMPATIBLE MATERIALS: Strong acids. Strong bases. Oxidizing agents

HAZARDOUS DECOMPOSITION

PRODUCTS: Carbon dioxide. Carbon Monoxide. Other potentially toxic fumes.

Section 11: Toxicological Information

Benzyl Alcohol

a) Acute Toxicity	Harmful if swallowed
LD50 oral rat	1000-5000mg/kg
b) Skin corrosion/irritation	Moderate irritation. Causes skin sensitization.
c) Serious eye damage/irritation	Irritation to the eye
d) Respiratory or skin sensitization	Causes skin sensitization
e) Germ-cell mutagenicity	In vitro: positive In vivo: negative
f) Carcinogenicity	Not available
g) Reproductive toxicity	Not available

ROUTES OF EXPOSURE/ DESCRIPTION OF SYMPTOMS (ACUTE AND CHRONIC)

SKIN CONTACT: 100-51-6: slightly irritating to skin. Administration onto the skin, rabbit standard Draize test: 100 mg/24h (moderate). Causes severe skin irritation and possible burns. May cause permanent skin damage. May cause an allergic reaction. May cause skin sensitization. Prolonged skin contact causes burns.

EYE CONTACT: 84852-15-3: Severe eye irritant. 84852-15-3: Administration into eye, rabbit standard Draize test :100 mg (severe). Corrosive, will cause eye burns, permanent tissue damage and blindness.

INHALATION: 100-51-6: May cause somnolence, ataxia or respiratory depression. 2855-13-2: TClO: 200 mg/m³/6h/9d (intermittent) Sense organs and special senses (olfaction): effect, not otherwise specified. Lungs, thorax or respiration: Structural or functional change in trachea or bronchi.

Harmful if inhaled. May cause severe respiratory system irritation. Repeated or prolonged inhalation may cause toxic effects.

INGESTION: 100-51-6: May cause somnolence, ataxia, excitement, or respiratory depression. 84852-15-3: Affected organs: liver (other changes), blood (hemorrhage), nutritional and gross metabolic (weight loss or decreased weight gain). Corrosive to the digestive tract. Harmful if swallowed.

Section 12: Ecological Information

Fish Toxicity: 25068-38-6: LC50: 1.41mg/L 96h (Oryzias latipes)
Crustacean Toxicity: 25068-38-6: EC50: 1.7mg/L 48h (Daphnia magna)
Aquatic plant toxicity: 25068-38-6: >11mg/L 72h (Scenedesmus capricornutum)
Persistence: Not available
Resolvability: Not available
Bioaccumulation: 25068-38-6: log Kow: 2.281, BCF: 0.56-0.67. 0% after 28 days, not biodegradable.
Mobility in soil: 25068-38-6: log Koc: 2.65+/- 0.7.

Section 13: Disposal Considerations

WASTE DISPOSAL: Dispose of contents/container in accordance with local, regional, federal regulations.

CONTAMINATED PACKAGING: Dispose of packaging in the same way as unused product.

Section 14: Transportation Information

UN NUMBER	UN735
UN PROPER SHIPPING NAME	Amines, liquid, corrosive, N.O.S (Isophoronediamine)
TRANSPORT HAZARD CLASS	8
PACKING GROUP	III
MARINE POLLUTANT	Yes

Section 15: Regulatory Information

WHMIS CLASSIFICATION: Class D1B, D2A, E.

DSL All ingredients listed on the Canadian DSL

Section 16: Other Information

Prepared by: Terrafuse Inc
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Terrafuse Inc has compiled the information and recommendations contained in this Safety Data Sheet (SDS) from sources believed to be reliable and to represent the most reasonable current on the subject when it was prepared. No warranty, guarantee or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state/provincial laws.