

Section 1: Identification

PRODUCT NAME: TF Epoxy Part A

OTHER NAMES: Not Applicable

PRODUCT USE: Coatings. Paints.

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Section 2: Hazard Identification

HAZARD CLASSIFICATION (GHS): Skin Irritant 2. Skin sensitizer 1. Acute oral toxicity 4. Eye Irritant 2A. Aquatic Chronic 2.

GHS LABEL ELEMENTS:

Signal Word:
Pictogram(s):

WARNING**HAZARD STATEMENT(S):**

H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H320 Causes eye irritation.

PRECAUTIONARY STATEMENT(S):

P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P273 Avoid release to the environment. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance to federal rules, laws and regulations.

Section 3: Composition/ Information on Ingredients

Components	CAS#	Concentration (%)
Bisphenol A – Epoxy Resin	25068-38-6	60-100
Alkyl Glycidyl Ether	68609-97-2	10-30

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. Rinse mouth with water. Consult a physician if effects occur.

Section 5: Fire- Fighting Measures

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

FIRE FIGHTING INSTRUCTIONS: Use full protective apparel and self contained breathing apparatus. In case of conflagration, use foaming agent or water spray. Isolate from heat, electrical equipment, sparks and open flames.

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

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP: Absorb with sand or nonflammable material. Sweep spilled material into non-leaking containers.

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.

Section 8 Exposure Controls/ Personal Protection

EXPOSURE LIMITS:

Bisphenol A	USA NIOSH (TWA) (mg/m ³)	Not Established
- Epoxy Resin	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
Alkyl Glycidyl Ether	USA NIOSH (TWA) (mg/m ³)	No Data
	Alberta OEL TWA (mg/m ³)	No Data
	British Columbia OEL TWA (mg/m ³)	No Data
	Manitoba OEL TWA (mg/m ³)	No Data
	New Brunswick OEL TWA (mg/m ³)	No Data
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	Quebec VEMP (mg/m ³)	No Data
	Saskatchewan OEL TWA (mg/m ³)	No Data
	Yukon OEL TWA (mg/m ³)	No Data

ENGINEERING CONTROLS: Supply safety shower and eyewash station near handling area. Use local exhaust if general ventilation is inadequate.

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 safety glasses.

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. Colorless.
b) Odor:	Mild odor.
c) Odor threshold:	No data available
d) pH:	6-8
e) Melting/Freezing point:	2°C
f) Boiling point	215°C
g) Flash point:	113 °C
h) Evaporation rate:	Not available

i) Flammability:	Not available
j) Flammability Limits:	Not available
k) Vapor pressure:	0.6 mm hg @ 20 °C
l) Relative density:	1.1g/cm ³
m) Water solubility:	1.4g/100mL @ 20 °C
n) Partition coefficient:	3.42
o) Auto-ignition temperature:	No data available
p) Decomposition temperature:	No data available
q) Viscosity:	2500 cps @ 25 °C

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: No data available

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

a) Acute Toxicity LD50 oral rat	Harmful if swallowed 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
h) STOT-single exposure	Not available
i) STOT-repeated exposure	5068-38-6: Oral: slight body weight effects, enlarged cecum, slight histopathologic effects (Doses >= 250 mg/kg/day). 3% decrease in body weight (female rats at 50 mg/kg/day). Dermal: Systemic toxicity NOAEL: 100 mg/kg/day. Slight decrease in body weight at 1000 mg/kg/day. NOEL: 10 mg/kg/day (female rats).

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

SKIN CONTACT:	May cause dry skin, discomfort and irritation.
EYE CONTACT:	Causes eye irritation. Symptoms may include redness, pain, swelling, itching, burning and blurred vision.
INHALATION:	May cause respiratory tract irritation, including coughing and shortness of breath. (Note: persons with impaired respiratory function may be more susceptible to the effects of the substance.)
INGESTION:	Ingestion is likely to be harmful or have adverse effects.
MEDICAL CONDITIONS THAT MAY BE AGGREAVATED BY EXPOSURE:	No data available

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	UN3082
UN PROPER SHIPPING NAME	(Diglycidyl Ether of Bisphenol A). Environmentally hazardous substances, liquid, N.O.S.
TRANSPORT HAZARD CLASS	9
PACKING GROUP	III

Section 15: Regulatory Information

WHMIS CLASSIFICATION:	Class D2B
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.