









# SAFETY DATA SHEET

## TOTALBOAT FLEXEPOX EPOXY RESIN

### OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT NAME:	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Bisphenol A Epoxy Resin	25068-38-6	Not available	Not available
Bisphenol F Epoxy Resin	28064-14-4	Not available	Not available

**APPROPRIATE ENGINEERING CONTROLS:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

<b>EYE/FACE PROTECTION:</b>	Safety glasses or goggles required.
<b>SKIN PROTECTION:</b>	Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/ workplace procedures including personal protective clothing: lab coat and protective gloves.
<b>RESPIRATORY PROTECTION:</b>	Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.
<b>GENERAL PROTECTION:</b>	Eyewash fountains and safety showers are recommended in the work area.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Viscous liquid	<b>UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b>	Not available
<b>COLOR:</b>	Clear amber	<b>VAPOR PRESSURE:</b>	<1 mm Hg at 20°C
<b>ODOR:</b>	Slight	<b>VAPOR DENSITY:</b>	Heavier than air
<b>ODOR THRESHOLD:</b>	Not available	<b>RELATIVE DENSITY:</b>	1.17
<b>PH:</b>	Not available	<b>SOLUBILITY(IES):</b>	Negligible
<b>MELTING POINT/ FREEZING POINT</b>	Not available	<b>PARTITION COEFFICIENT (n-octanol/water):</b>	Not available
<b>INITIAL BOILING POINT AND BOILING RANGE:</b>	Not available	<b>AUTO-IGNITION TEMPERATURE:</b>	Not available
<b>FLASH POINT:</b>	>200°C (Closed Cup)	<b>DECOMPOSITION TEMPERATURE:</b>	>200°C
<b>EVAPORATION RATE:</b>	Not available	<b>VISCOSITY:</b>	8,500 cP at 25°C
<b>FLAMMABILITY (SOLID, GAS):</b>	Not available		

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## SECTION 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

**CHEMICAL STABILITY:** This product is stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

**CONDITIONS TO AVOID:** Excessive heat and ignition sources.



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**INCOMPATIBLE MATERIALS:** Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Phenolics.

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### SECTION 11. TOXICOLOGICAL INFORMATION

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**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:** Eyes, skin, inhalation and ingestion.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

- EYES:** Causes serious eye irritation.
- SKIN:** May cause allergic skin reaction. Causes skin irritation. Repeated or prolonged contact may cause skin irritation and dermatitis.
- INHALATION:** High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory track and mucous membranes.
- INGESTION:** Ingestion may cause irritation.

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:** Further information is not available.

**ACUTE TOXICITY:**

CHEMICAL NAME	LC <sub>50</sub> INHALATION	LD <sub>50</sub> ORAL (RAT)	LD <sub>50</sub> DERMAL (RABBIT)
Bisphenol A Epoxy Resin	Not available	>2,000 mg/kg	>2,000 mg/kg
Bisphenol F Epoxy Resin	Not available	>30,000 mg/kg	>1,200 mg/kg

**CORROSION / IRRITATION / SENSITIZATION INFORMATION:**

- SKIN CORROSION/IRRITATION:** Skin irritation – Category 2
- SERIOUS EYE DAMAGE/IRRITATION:** Eye irritation – Category 2
- RESPIRATORY OR SKIN SENSITIZATION:** Skin sensitization – Category 1

**CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:**

- GERM CELL MUTAGENICITY:** Information is not available.
- CARCINOGENICITY:** Information is not available.
- REPRODUCTIVE TOXICITY:** Information is not available.

**SPECIFIC TARGET ORGAN TOXICITY (STOT):**

- STOT-SINGLE EXPOSURE:** Information is not available.
- STOT-REPEATED EXPOSURE:** Information is not available.

**ASPIRATION HAZARD:** Information is not available.

**OTHER INFORMATION:** Additional information is not available.

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### SECTION 12. ECOLOGICAL INFORMATION

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**TOXICITY:**

CHEMICAL NAME	TEST	SPECIES	RESULT
Bisphenol A Epoxy Resin	LC50 (96 hrs)	Fish	2.4 mg/L
	EC50 (24 hrs)	Daphnia	3.6 mg/L
	IC 50 (96 hrs)	Bacteria	>100 mg/L
Bisphenol F Epoxy Resin	Not available		



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N/E = Not established (no exposure limits established for listed substances for listed country/region/organization).

### PERSISTENCE AND DEGRADABILITY:

CHEMICAL NAME	TEST	PERIOD	RESULT
Bisphenol A Epoxy Resin	OECD Derived from OECD 301F (Biodegradation Test)	28 Days	5%

### BIOACCUMULATIVE POTENTIAL:

CHEMICAL NAME	Log P <sub>ow</sub>	BCF	POTENTIAL
Bisphenol A Epoxy Resin	3.242	31	Low
Bisphenol F Epoxy Resin	Not available	Not available	Not available

### MOBILITY IN SOIL:

CHEMICAL NAME	SOIL/WATER PARTITION COEFFICIENT (K <sub>oc</sub> )
Bisphenol A Epoxy Resin	445
Bisphenol F Epoxy Resin	Not available

**OTHER ADVERSE EFFECTS:** Additional information is not available

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## SECTION 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHODS:** Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

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## SECTION 14. TRANSPORTATION INFORMATION

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**UN NUMBER:** UN3082

**UN PROPER SHIPPING NAME:** Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin)

### TRANSPORT HAZARD CLASS:

<b>U.S. DOT HAZARD CLASS:</b>	Not Regulated
<b>CANADA TDG HAZARD CLASS:</b>	Not Regulated
<b>EUROPE ADR/RID HAZARD CLASS:</b>	9
<b>IMDG CODE (OCEAN) HAZARD CLASS:</b>	9
<b>ICAO/IATA (AIR) HAZARD CLASS:</b>	9

**PACKING GROUP:** III

### ENVIRONMENTAL HAZARDS:

<b>MARINE POLLUTANT:</b>	Yes
<b>HAZARDOUS SUBSTANCE (USA):</b>	No

**SPECIAL PRECAUTIONS FOR USER:** Information is not available.

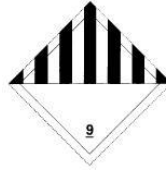
**TRANSPORTING IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:**  
Information is not available.



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**LABEL FOR CONVEYANCE:**



**OTHER INFORMATION:** For surface shipments within the United States: Not regulated.

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### SECTION 15. REGULATORY INFORMATION

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**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION:**

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization, Substances of very high concern	None of the components are listed.
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	None of the components are listed.

**OTHER REGULATIONS:** Additional information is not available.

**CHEMICAL INVENTORIES:**

Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ENCS):	N
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

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### SECTION 16. OTHER INFORMATION

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**REVISION DATE:** August 12, 2015

**LEGEND:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR/RID: European dangerous goods transport road and rail regulations  
CAS No: Chemical Abstract Service Registry Number  
DOT: Department of Transportation (U.S.)  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods code  
OEL: Occupational Exposure Limits  
OSHA: Occupational Safety and Health Administration (U.S.)  
PEL: Permissible Exposure Limit  
RQ: Reportable Quantity  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)  
TDG: Canadian Transportation of Dangerous Goods Act and Regulations  
UN: United Nations  
U.S.: United States

**USERS RESPONSIBILITY/DISCLAIMER OF LIABILITY:**



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## TOTALBOAT FLEXEPOX EPOXY RESIN

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.