

## **SECTION 1: IDENTIFICATION**

**GHS PRODUCT IDENTIFIERS:** 

PRODUCT NAME: TotalBoat ThickSet Fathom Epoxy Hardener

**SYNONYMS, TRADE NAMES:** ThickSet Fathom Hardener, Part B

OTHER MEANS OF IDENTIFICATION: Not Applicable

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

**USES:** Polymer Matrix For Fiber-Reinforced Plastic (FRP)

RESTRICTIONS ON USE: None Identified

**DISTRIBUTOR'S DETAILS:** 

**DISTRIBUTOR:** TOTALBOAT LLC

17 Peckham Drive Bristol, RI 02809, USA

TELEPHONE: +1 800 497 0010

**EMERGENCY PHONE NUMBER:** 

INFOTRAC (24 HRS): USA & CANADA 1 800 535 5053 INFOTRAC (24 HRS): INTERNATIONAL +1 352 323 3500

### **SECTION 2: HAZARDS IDENTIFICATION**

### **GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:**

Acute toxicity, oral:

Acute toxicity, dermal:

Category 4, H302

Category 4, H312

Skin Corrosion:

Category 1, H314

Eye Damage:

Category 1, H318

Specific Target Organ Toxicity:

Category 2, H373

Hazardous to the aquatic environment: Chronic Category 2, H411
Hazardous to the aquatic environment: Acute Category 2, H401

### **GHS LABEL ELEMENTS:**

**HAZARD SYMBOLS:** 







SIGNAL WORDS: Danger

**HAZARD STATEMENTS:** H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated

exposure

H401 Toxic to aquatic life.



H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

**PREVENTION:** P260 Do not breathe mists.

P264 Wash hands 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 protective gloves, clothing, and eye/face protection.

RESPONSE: P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Call POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353+P352 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and

water.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P337+P313 If eye irritation persists: Get medical attention.

**STORAGE:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**DISPOSAL:** P501 Dispose of contents and containers in accordance with local, regional and

international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAMECAS NUMBERCONTENTPolyoxypropylenetriamine39423-51-360-90%2-Propanone, reaction products with 5-amino-<br/>1,3,3-trimethylcyclohexanemethanamine,<br/>reduced14579010-40%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

# **SECTION 4: FIRST-AID MEASURES**

#### **DESCRIPTION OF NECESSARY FIRST-AID MEASURES:**

**INHALATION:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing,

give artificial respiration.

**SKIN:** Immediately remove contaminated clothing and shoes. Wash the affected area with

plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention immediately.



**EYES:** Immediately flush eyes with plenty of clean water for an extended time, not less than

fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and

roll eyes in a circular motion. Get medical attention immediately.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse out the mouth with water. Get medical attention immediately.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

**SYMPTOMS:** Burns. Irritation. Pre-existing skin problems may be aggravated by prolonged or

repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to

vapors. See section 11 for additional information.

# INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF

**NECESSARY:** 

**TREATMENT:** Treat symptomatically.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA:**

**SUITABLE:** Use water spray, foam, dry chemical or carbon dioxide.

**UNSUITABLE:** None known.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. **HAZARDOUS COMBUSTION PRODUCTS:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous decomposition products for additional information.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:** Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

**ENVIRONMENTAL PRECAUTIONS:** Do not flush product into public sewer, water systems or surface waters.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

#### **SECTION 7. HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash



thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Keep away from heat, sparks and open flames. Store dry at 15-40°C, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **CONTROL PARAMETERS:**

#### **OCCUPATIONAL EXPOSURE LIMITS:**

CHEMICAL NAMECAS NUMBERACGIH-TWAACGIH-STELPolyoxypropylenetriamine39423-51-3Not availableNot available

2-Propanone, reaction products with 5-

amino-1,3,3trimethylcyclohexanemethanamine, 145790 Not available Not available

reduced

**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):

**EYE/FACE** Full face shield with safety glasses or goggles underneath are required.

PROTECTION:

**SKIN** Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL,

PROTECTION: butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/

workplace procedures including personal protective clothing: lab coat and protective

gloves.

**RESPIRATORY** Wear an approved respirator (e.g., an organic vapor respirator, a full face air

**PROTECTION:** 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.

**GENERAL** Eyewash fountains and safety showers are recommended in the work area.

PROTECTION:

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Liquid UPPER/LOWER FLAMMABILTY OR Not available

**EXPLOSIVE LIMITS:** 

COLOR: Clear VAPOR PRESSURE: <1.2 mm Hg at

20°C

ODOR: Amine-like VAPOR DENSITY: Heavier than air

ODOR THRESHOLD:Not availableRELATIVE DENSITY:0.96PH:Not availableSOLUBILITY(IES):Partial



MELTING POINT/ Not available PARTITION COEFFICIENT Not available

FREEZING POINT (n-octanol/water):

Not available

INITIAL BOILING POINT Not available AUTO-IGNITION TEMPERATURE: Not available

AND BOILING RANGE:

FLASH POINT: >112°C DECOMPOSITION TEMPERATURE: Not available EVAPORATION RATE: Not available VISCOSITY: 70 cP at 25°C

FLAMMABILITY

(SOLID, GAS):

# **SECTION 10. STABILITY AND REACTIVITY**

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

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

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

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

#### SECTION 11. TOXICOLOGICAL INFORMATION

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 damage.

**SKIN:** Harmful in contact with skin. Causes severe skin burns. May cause allergic skin

reaction.

**INHALATION:** May be harmful if inhaled. **INGESTION:** Harmful if swallowed.

#### DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG

TERM EXPOSURE: May cause damage to liver through prolonged or repeated exposure

**ACUTE TOXICITY:** 

CHEMCIAL NAME LC<sub>50</sub> INHALATION (RAT) LD<sub>50</sub> ORAL (RAT) LD<sub>50</sub> DERMAL (RAT)

Polyoxypropylenetriamine Not available 550 mg/kg >1,000 mg/kg

2-Propanone, reaction products

with 5-amino-1.3.3-

trimethylcyclohexanemethanam Not available >2,000 mg/kg >2,000 mg/kg

ine, reduced

#### **CORROSION / IRRITATION / SENSITIZATION INFORMATION:**

SKIN CORROSION/IRRITATION:Skin corrosion – Category 1SERIOUS EYE DAMAGE/IRRITATION:Eye damage – Category 1RESPIRATORY 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.

# **SECTION 12. ECOLOGICAL INFORMATION**

SECTION 12. ECOLOGICAL INI ORNIA HON					
TOXICITY:					
CHEMICAL NAME	TEST	SPECIES		RESULT	
Polyoxypropylenetriamine	LC50 (96 hrs)	Fish		>100 mg/L	
	EC50 (48 hrs)	Daphnia		13 mg/L	
	ErC50 (72 hrs)	Algae		4.4 mg/L	
2-Propanone, reaction products with 5-					
amino-1,3,3-trimethylcyclohexan- emethanamine, reduced	LC50 (96 hrs)	Fish		>100 mg/L	
	EC50 (48 hrs)	Daphnia		16 mg/L	
	IC10 (72 hrs)	Algae		3.7 mg/L	
PERSISTENCE AND					
DEGRADABILITY: CHEMICAL NAME	TEST			PERIOD	RESULT
DEGRADABIETT: CHEMICAL NAME	OECD Derived from OECD 301F			FLINIOD	KLOULI
Polyoxypropylenetriamine	(Biodegradation Test)			28 Days	<5%
2-Propanone, reaction products with 5-	`	,			
amino-1,3,3-	Not readily biodegradable 28			28 Days	<60%
trimethylcyclohexanemethanamine, reduced				20 24,0	10070
reduced					
BIOACCUMULATIVE POTENTIAL:					
CHEMICAL NAME	Log P <sub>ow</sub>		BCF	POTENTIAL	
Polyoxypropylenetriamine	-1.13		Not available	Low	
2-Propanone, reaction products with 5-					
amino-1,3,3- trimethylcyclohexanemethanamine,	4.5 - 4.6 Not available		Not available		
reduced					
MOBILITY IN SOIL:					
CHEMICAL NAME	SOIL/WATER PARTITION COEFFICIENT (Koc)				

CHEMICAL NAME SOIL/WATER PARTITION COEFFICIENT (Koc)

Not available

Polyoxypropylenetriamine

2-Propanone, reaction products with 5-

amino-1,3,3-

trimethylcyclohexanemethanamine,

reduced

> 5.63

OTHER ADVERSE EFFECTS: Additional information is not available



#### SECTION 13. DISPOSAL CONSIDERATIONS

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.

## **SECTION 14. TRANSPORTATION INFORMATION**

UN NUMBER: UN2735

**UN PROPER SHIPPING NAME:** 

Amines, Liquid, Corrosive, N.O.S., (Polyoxypropylenetriamine)

TRANSPORT HAZARD CLASS:

**U.S. DOT HAZARD CLASS:** 8 **CANADA TDG HAZARD CLASS:** 8 **EUROPE ADR/RID HAZARD CLASS:** IMDG CODE (OCEAN) HAZARD CLASS: 8 ICAO/IATA (AIR) HAZARD CLASS: 8

PACKING GROUP: III

**ENVIRONMENTAL HAZARDS:** 

MARINE POLLUTANT: No **HAZARDOUS SUBSTANCE (USA):** Nο

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.

LABEL FOR CONVEYANCE:



**OTHER INFORMATION:** Not available

#### SECTION 15. REGULATORY INFORMATION

#### 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

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

components are listed. None of the

None of the

components are listed.

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

CHEMICAL INVENTORIES:

Canadian Domestic Substances List (DSL):

Υ



Canadian Non-Domestic Substances List (NDSL):

European Inventory of Existing Chemical Substances (EINECS):

Y

European List of Notified Chemical Substances (ELINCS):

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.

### **SECTION 16. OTHER INFORMATION**

REVISION DATE: September 22, 2020

**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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