



SAFETY DATA SHEET

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SECTION 1: IDENTIFICATION

GHS PRODUCT IDENTIFIERS:

PRODUCT NAME: TotalBoat Thixo Part B Hardener
SYNONYMS, TRADE NAMES: TotalBoat Thixo Hardener, Part B
OTHER MEANS OF IDENTIFICATION: Not Available

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

USES: Adhesive
RESTRICTIONS ON USE: None Identified

SUPPLIER'S DETAILS:

SUPPLIER: TOTALBOAT LLC
17 Peckham Drive
Bristol, RI 02809
TELEPHONE: +1 800 497 0010
FACSIMILE: +1 401 254 5829

EMERGENCY PHONE NUMBER:

INFOTRAC: 1 800 535 5053 (or go to www.infotrac.net)

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Acute toxicity, oral: Category 4, H302
Acute toxicity, dermal: Category 4, H312
Skin Corrosion: Category 1, H314
Eye Damage: Category 1, H318
Skin sensitization: Category 1, H317
Hazardous to the aquatic environment: Chronic Category 3, H412
Acute toxicity, inhalation: Category 4, H332
Hazardous to the aquatic environment: Acute Category 1, H400
Toxic to reproduction: Category 2, H361

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.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

PREVENTION:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breath mists, fumes, vapors or spray.
- 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 a POISON CENTER if you feel unwell.
- P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.
- 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.
- P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
- P308+P313 IF exposed or concerned: Get medical attention.
- 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 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



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONTENT
Isophoronediamine	2855-13-2	50-70%
Benzyl Alcohol	100-51-6	20-30%
4,4'-isopropylindenediphenol	80-05-7	0-10%
Diethylenetriamine	111-40-0	0-10%

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.



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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 NAME	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Isophoronediamine	2855-13-2	Not available	Not available
Benzyl Alcohol	100-51-6	Not available	Not available
4,4'-isopropylindenediphenol	80-05-7	Not available	Not available
Diethylenetriamine	111-40-0	1 ppm (8 hours)	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.



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

EYE/FACE PROTECTION:	Full face shield with safety glasses or goggles underneath are required.
SKIN PROTECTION:	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.
RESPIRATORY PROTECTION:	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.
GENERAL PROTECTION:	Eyewash fountains and safety showers are recommended in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Paste	UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not available
COLOR:	Translucent amber	VAPOUR PRESSURE:	<0.15 mm Hg at 20°C
ODOUR:	Amine-like	VAPOUR DENSITY:	Heavier than air
ODOUR THRESHOLD:	Not available	RELATIVE DENSITY:	1.05
PH:	Not available	SOLUBILITY(IES):	Slightly
MELTING POINT/ FREEZING POINT	Not available	PARTITION COEFFICIENT (n-octanol/water):	Not available
INITIAL BOILING POINT AND BOILING RANGE:	Not available	AUTO-IGNITION TEMPERATURE:	Not available
FLASH POINT:	>108°C	DECOMPOSITION TEMPERATURE:	Not available
EVAPORATION RATE:	Not available	VISCOSITY:	Thixotropic paste
FLAMMABILITY (SOLID, GAS):	Not available		

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.



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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:** Causes severe skin burns. May cause allergic skin reaction. Harmful in contact with skin.
- INHALATION:** Throat and respiratory tract. Harmful if inhaled.
- INGESTION:** Harmful if swallowed.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE: Suspected of damaging fertility or the unborn child.

ACUTE TOXICITY:

CHEMICAL NAME	LC ₅₀ INHALATION (RAT)	LD ₅₀ ORAL (RAT)	LD ₅₀ DERMAL (RABBIT)
Isophoronediamine	Not available	1,030 mg/kg	Not available
Benzyl Alcohol	>4,178 mg/m ³ (4 hrs)	1,620 mg/kg	Not available
4,4'-isopropylindenediphenol	Not available	>2,000 mg/kg	>2,000 mg/kg
Diethylenetriamine	Not available	1,080-2,330 mg/kg	672-1,240 mg/kg

CORROSION / IRRITATION / SENSITIZATION INFORMATION:

- SKIN CORROSION/IRRITATION:** Skin corrosion – Category 1
- SERIOUS EYE DAMAGE/IRRITATION:** Eye damage – Category 1
- 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:** Toxic to reproduction – Category 2

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: None

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY:

CHEMICAL NAME	TEST	SPECIES	RESULT
Isophoronediamine	LC50 (96 hrs)	Fish	110 mg/L
	EC50 (48 hrs)	Daphnia	23 mg/L
	EC10 (18 hrs)	Bacteria	1120 mg/L
Benzyl Alcohol	LC50 (96 hrs)	Fish	460 mg/L



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EC50 (48 hrs)	Daphnia	230 mg/L
EgC50 (72 hrs)	Algae	770 mg/L
4,4'-isopropylindenediphenol	Not available	
Diethylenetriamine	Not available	

PERSISTENCE AND DEGRADABILITY:

CHEMICAL NAME	TEST	PERIOD	RESULT
Isophoronediamine	EU EC C.4-A Biodegradation: Determination of the "Read" Biodegradability: Dissolved Organic Carbon (DOC) Die-Away Test	28 Days	8%
Benzyl Alcohol	OECD 301A Ready Biodegradability – DOC Die Away test	21 Days	95-97%
4,4'-isopropylindenediphenol	Not available		
Diethylenetriamine	Not available		

BIOACCUMULATIVE POTENTIAL:

CHEMICAL NAME	Log P _{ow}	BCF	POTENTIAL
Isophoronediamine	0.99	Not available	Low
Benzyl Alcohol	1.1	Not available	Low
4,4'-isopropylindenediphenol	Not available	Not available	Not available
Diethylenetriamine	Not available	Not available	Not available

MOBILITY IN SOIL:

CHEMICAL NAME	SOIL/WATER PARTITION COEFFICIENT (K _{oc})
Isophoronediamine	Not available
Benzyl Alcohol	Not available
4,4'-isopropylindenediphenol	Not available
Diethylenetriamine	Not available

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: UN2289

UN PROPER SHIPPING NAME:

Isophoronediamine Mixture



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TRANSPORT HAZARD CLASS:

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

PACKING GROUP: III

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT:	Yes
HAZARDOUS SUBSTANCE (USA):	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.

LABEL FOR CONVEYANCE:



OTHER INFORMATION: ORM-D Consumer Commodity in 1 gal or less containers

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	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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TOTALBOAT THIXO PART B HARDENER

SECTION 16. OTHER INFORMATION

REVISION DATE: April 14, 2014

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:

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.