



Safety Data Sheet (SDS)

Revision / Review Date: 8/25/14

1. Chemical Product and Company Identification

Product Name:	TOTM-E
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Tri(2-Ethylhexyl) Trimellitate
CAS No:	003319-31-1
Product Use:	Plasticizer
OSHA Status	Not Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Primary Routes of Entry: N/A.

Medical Conditions Generally Aggravated by Exposure: N/A

Acute Health Hazards: N/A

Chronic Health Hazards: N/A

Carcinogenicity OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

Other: N/A

Notes: SALMONELLA TYPHIMURIUM ASSAY (AMES TEST): NEGATIVE
CHO/HGPRT ASSAY: NEGATIVE
UNSCHEDULED DNA SYNTHESIS (UDS) ASSAY: NEGATIVE

3. Composition / Information on Ingredients

INGREDIENT:

CAS NUMBER:	% WT	% VOL	SARA 313 REPORTABLE
003319-31-1	> 99.9		NA
001843-03-4	< 1		
	PPM	MG/M ³	
OSHA PEL-TWA:	NA		
OSHA PEL-STEL:	NA		
OSHA PEL-CEILING:	NA		
ACGIH TLV-TWA:	NA		
ACGIH TLV-STEL:	NA		
ACGIH TLV CEILING:	NA		

4. First Aid Measures

<u>Inhalation:</u>	If symptoms develop, move victim away from exposure and into fresh air. Administer oxygen if breathing is difficult.
<u>Eyes:</u>	Flush eye with water for at least 15 minutes. If irritation develops seek medical attention.
<u>Skin:</u>	Wash affected area with soap and water. Seek Medical attention if symptoms persist.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention. If individual is drowsy, do not give anything by mouth.

5. Fire-Fighting Measures

FLAMMABLE LIMITS IN AIR (% BY VOLUME)	UPPER:	NA
	LOWER	NA
FLASH POINT:		
°F	505	
°C		
METHOD USED:	COC	
AUTOIGNITION TEMPERATURE:		
°F	770	
°C		
NFPA HAZARD CLASSIFICATION:		
HEALTH:	1	FLAMMABILITY: 1
OTHER:		REACTIVITY: 0
HMIS HAZARD CLASSIFICATION:		
HEALTH:	1	FLAMMABILITY: 1
PROTECTION:		REACTIVITY: 0

Suitable Extinguishing Media: Dry Chemical, CO2, Foam, Water Spray.

<u>Special Fire Fighting Procedures:</u>	Wear self-contained breathing apparatus and protective clothing.
<u>Hazardous Decomposition Products:</u>	Carbon Monoxide, Carbon Dioxide.
<u>Unusual fire and explosion hazards:</u>	None
<u>Notes:</u>	Low hazard, liquid can burn upon heating to elevated temperatures. l _{el} @ 480° F 0.26% volume u _{el} @ 579° F 2.50% volume

6. Accidental Release Measures

<u>Steps to be taken in case material is Spilled:</u>	Absorb the material with inert absorbent and dispose of in accordance with Federal, State and Local Laws.
<u>Waste Disposal:</u>	Reclaim or dispose of in accordance with local, state, and federal regulations.

7. Handling and Storage:

<u>Handling and Storage:</u>	No special storage requirements.
<u>Precautions to be taken in handling:</u>	Avoid breathing mist or vapors, Avoid skin and eye contact.
<u>Note:</u>	Ground containers when transferring to avoid static discharge.

8. Exposure Controls / Personal Protection

<u>Engineering Controls:</u>	
<u>Ventilation:</u>	Local ventilation to control process emissions.
<u>Protective Gloves:</u>	Rubber, Neoprene if splashing is a problem.
<u>Eye Protection:</u>	Wear safety glasses or chemical goggles to prevent eye contact as necessary. Wear a face shield if so lashing is a problem.
<u>Skin and Body Protection:</u>	Protective clothing to minimize contact.
<u>Other Precautions:</u>	Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.
<u>Decontamination Facilities:</u>	Eye bath, washing facilities (sinks / showers)

9. Physical and Chemical Properties

<u>Physical Form:</u>	Clear Colorless Liquid
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<u>Odor:</u>	Minimal
pH AS SUPPLIED:	NA
pH (OTHER):	NA
BOILING POINT:	°F: 777 °C: 414
MELTING POINT:	°F: NM °C:
FREEZING POINT:	°F: NM °C:
VAPOR PRESSURE (MM HG):	<0.0000001 MBAR @68°F
VAPOR DENSITY (AIR=1)	18.9
SPECIFIC GRAVITY (H2O=1)	0.989 @68°F
EVAPORATION RATE:	NM
BASIS (=1)	
SOLUBILITY IN WATER:	34-179 MICROGRAMS/L @68°F
PERCENT SOLIDS BY WEIGHT:	NA
PERCENT VOLATILE:	MN
BY WEIGHT:	°F: NM °C:
BY VOLUME:	°F: NM °C:
VOLATILE ORGANIC COMPOUNDS:	
WITH WATER:	LBS/GAL NM
WITHOUT WATER	LBS/GAL NM
MOLECULAR WEIGHT	
VISCOSITY:	@°F @°C:
Notes:	Octanole /Water partition coefficient log P=4.35, P=23930

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Avoid contact with strong oxidizers
<u>Conditions to Avoid:</u>	Temperatures above the boiling.
<u>Hazardous Polymerization:</u>	Will not occur.

11. Toxicological Information

<u>Toxicological:</u>	<p>Inhalation: low hazard for usual industrial handling or commercial handling by trained personnel</p> <p>oral Id50 (rat) > 3.2 g/kg</p> <p>oral Id50 (mouse) > 3.2 g/kg</p> <p>inhalation Ic50 (rat) > 230 mg/m3/6 hours</p> <p>dermal Id50 (guinea pig): > 20 ml/kg</p> <p>skin irritation (guinea pig): slight</p> <p>skin sensitization (guinea pig): none</p> <p>eye irritation (rabbit): slight</p> <p>oral study (28 days, male rat): LOEL = 642 mg/kg/day (minor target organ effect: liver), noel = 184 mg/kg/day; LOEL= 184 mg/kg/day (minor target effect: blood); noel = not established</p>
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12. Ecological Information

This material has not been evaluated for environmental effects.

13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

14. Transport Information

<u>D.O.T. Shipping Name</u>	Not regulated
<u>Air - ICAO (international Civil Aviation Organization)</u>	Not regulated .
<u>Label Statement:</u>	Low Hazard for usual industrial or commercial handling by trained personnel.
<u>Sea - IMDG (International Maritime Dangerous Goods)</u>	Not regulated in non-bulk packaging
<u>Notes:</u>	TDG Canada- Not regulated.

15. Regulatory Information

US FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT): LISTED ON THE TSCA INVENTORY AT CAS REG NO 003319-31-1
CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION AND LIABILITY ACT):
SARA TITLE III (SUPERFUND AMENDMENTS
AND REAUTHORIZATION ACT):
311/312 HAZARD CATEGORIES: NOT APPLICABLE
313 REPORTABLE INGREDIENTS: NONE
STATE REGULATIONS:
INTERNATIONAL REGULATIONS: LISTED ON EINECS NO 2220200
LISTED ON CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) AND DOMESTIC SUBSTANCE LIST (DSL)

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.