



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Trioctyl Trimellitate
2. CHEMICAL NAME: 1,2,4-Benzenetricarboxylic acid, 2-ethylhexyl ester
3. SYNONYMS: TOTM
4. CAS NUMBER: 3319-31-1
5. COMPOSITION: 1,2,4-Benzenetricarboxylic acid, 2-ethylhexyl ester
- 100%

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

6. PROPERTIES: ODOR & APPEARANCE: clear, pale yellow liquid with mild characteristic odor.
ODOR THRESHOLD: not known
VAPOUR PRESSURE: approx. 0.16mmHg/0.0021kPa – Note: at 200 c
EVAPORATION RATE (butyl Acetate=1): note known – not volatile
VAPOR DENSITY (air=1): not known – not volatile
BOILING RANGE: 283 c/541 F – Note: at 3mmHg, a near vacuum!
FREEZING POINT: -45 c/-50 F
SPECIFIC GRAVITY: 0.987 (20 c/20 c)
WATER SOLUBILITY: 100mg per litre (25 c)
IN OTHER SOLVENTS: not known – likely soluble in acetone, ethyl acetate and similar solvents
VISCOSITY: 300 centipoise (20 c)
PH: None – (does not liberate hydrogen ions when dissolved)
NOTE: VM & P Naphtha is a mixture of many hydrocarbon. The above data may vary from batch to batch.
FLASH POINT: 260 C/500 F (Closed cup)
AUTOIGNITION TEMPERATURE: 291 C/555 F
FLAMMABLE LIMITS: 0.3% - 2.5% not known
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments
FIREFIGHTING PRECAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: not a static accumulator – high viscosity makes static charge development unlikely
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion Products
HAZARD IDENTIFICATION
SPECIFIC HAZARD RATING SYSTEM
MATERIAL USE: plasticiser

7. HAZARDS: HMIS (USA): Health - 0, Fire - 1, Reactivity - 0

8. FIRE FIGHTING INFORMATION: Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA.

9. PERSONAL PROTECTION MEASURES: HANDS: neoprene or "Viton" gloves recommended but not required – consult supplier to confirm suitability
EYES: safety glasses with side shields or chemical goggles – always protect the eyes



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VENTILATION: not required
CLOTHING: no special protective clothing required

10. FIRST AID PROCEDURES: SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.
NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

11. EXPOSURE LIMITS: TWAEV/TLV ppm: not listed
LD50 ORAL: 5000
SKIN (mg/kg): over 2000
LC50 mg/m³ INHALATION: not known

12. TOXICOLOGICAL INFORMATION: EFFECTS ACUTE EXPOSURE
SKIN CONTACT: little to no effect
SKIN ABSORPTION: slight; no toxic effects likely by this route
EYE CONTACT: slightly irritating, will not damage eyes
INHALATION: viscous resists misting; very low vapor pressure resists vaporization
INGESTION: unlikely route of absorption for a viscous liquid: little to no effect in animal testing
EFFECTS OF CHRONIC EXPOSURE
GENERAL: little to no effect; dermatitis possible in sensitive individuals
SENSITISING: not a sensitiser
CARCINOGENIC: not considered a tumorigen or a carcinogen in humans or animals
NOTE: May contain traces of diethylhexyl phthalate – a carcinogen. We feel that these traces pose no risk to workers.
REPRODUCTIVE EFFECT: no known effect on humans or animals
SYNERGISTIC WITH: not known
LD50: 5000mg/kg (oral, rat). 60,000mg/kg (oral, mouse); over 2000mg/kg (skin, rabbit)
LC50: not known

13. ECOLOGICAL INFORMATION: This product cannot accumulate in living tissue. This product is readily and rapidly biodegradable in the presence of oxygen – 4% Biodegradation in 4 weeks.

14. DISPOSAL CONSIDERATIONS: DO NOT FLUSH TO SEWER; mix with flammable solvent and incinerate in approved facility.

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: Not considered a tumorigen or a carcinogen in humans or animals.

16. TRANSPORT INFORMATION: USA 49 CFR
Product identification number: UN - not regulated for transport



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Shipping name: not regulated for transport
Classification: not regulated for transport
Label: none required
WHMIS Class (Canada): not controlled under WHMIS

17. HANDLING & STORAGE: Store in a cool, dry environment, away from sources of ignition, heat and oxidizing agents. Do not cut, drill, weld or grind on or near this container. Use non-sparking tools and explosion-proof equipment in the neighborhood of this product. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.
18. ACCIDENTAL LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination.
RELEASE HANDLING SPILL: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue
MEASURES: on an inert sorbent, sweep, shovel, & store in closed containers for recycling and disposal.
19. REGULATORY INFORMATION: TSCA REQUIREMENTS: Pursuant to section 8(d) of TSCA, EPA promulgated a model Health and Safety Data Reporting rule. The section 8(d) model rule requires manufactures, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. Vinyl acetate is included on this list.