

1. PRODUCT NAME: Dioctyl Terephthalate

2. CHEMICAL NAME: Dioctyl Terephthalate

3. SYNONYMS: DOTP

4. CAS NUMBER: 6422-86-2

5. PROPERTIES: ODOR & APPEARANCE: clear, colorless to pale yellow, viscous, odorless liquid
ODOR THRESHOLD: not known
VAPOUR PRESSURE: 1mmHg/0.13kPa (at215 c) – extremely low
EVAPORATION RATE (butyl Acetate=1): not known
VAPOR DENSITY (air=1): 13.5
BOILING RANGE: 383 c/721F
FREEZING POINT: -48 c/-55 F
SPECIFIC GRAVITY: 0.984 (20/20 c)
WATER SOLUBILITY: 4 milligrams per litre (20 c)
IN OTHER SOLVENTS: soluble in acetone, ethanol and aromatic hydrocarbons
VISCOSITY: 63centipoise (20 c)
PH: none-(does not liberate hydrogen ions when dissolved)

6. HAZARDS: Terephthalic acid, bis(2-ethylhexyl) ester - 100%

7. FIRE FIGHTING MEASURES: FLASH PONT: 238 c/460 F (closed cup)
AUTOIGNITION TEMPERATURE: not known
FLAMMABLE LIMITS: not known
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, part oxidized hydrocarbon fragments creating acrid fumes including toxic aldehydes
FIRE FIGHTING PROCAUTIONS: treat as an oil fire: foam, dry chemical, water fog, water spray only to cool & dilute water jets spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: does not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion products.

8. PERSONAL PROTECTION MEASURES: HANDS: neoprene, butyl or nitrile gloves may be worn – consult supplier to conform suitability
EYES: safety glasses with side shields or chemical goggles – always protect the eyes
VENTILATION: not required
CLOTHING: no special protective clothing required
TSCA REQUIREMENTS: Section 8(a) of TSCA requires manufactures of this chemical substance to report preliminary assessment information concerned with production, use, and exposure to EPA as cited in the preamble in 51 FR 41329
Pursuant to section 8(d) of TSCA, EPA promulgated a model health and safety data reporting rule. The section 8(d) model rule requires manufacturers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. Bis(2-ethylhexyl) terephthalate is included on this list.

9. 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

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



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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.

10. **EXPOSURE LIMITS:** TWAEV ppm/mg/m³: 0.45/5
LD₅₀ ORAL: 20,000
SKIN (mg/kg): not known
LC₅₀ ppm INHALATION: not known

11. TOXICOLOGICAL EFFECTS ACUTE EXPOSURE

INFORMATION: SKIN CONTACT: little to no effect

SKIN ABSORPTION: no toxic effect likely by this route

EYE CONTACT: slightly irritating, will not damage eyes

INHALATION: low vapour pressure & high viscosity greatly reduces inhalation risk

INGESTION: little or no effect apart from diarrhoea – bitter taste discourages ingestion.

EFFECTS OF CHRONIC EXPOSURE

GENERAL: very low toxic product; prolonged exposure may cause dermatitis; experimental diets containing 2% - 5% caused inflammatory damage to the kidney in rodent

SENSITISING: not a sensitiser

CARCINOGENIC: not a human or animal carcinogen

REPRODUCTIVE EFFECT: no known effect in humans; experimental reproductive toxic in rodents when ingested at over 0.5% in the diet, not a mutagen in rodents at these doses

SYNERGISTIC WITH: not known

LD₅₀: 20,000mg/kg (oral, rat) – very low toxicity

LC₅₀: not known

12. **ECOLOGICAL INFORMATION:** This product cannot accumulate in living tissue, this product is readily and readily biodegradable in soil and water (speed not given); half-life in air estimated as 18 hours

13. **DISPOSAL CONSIDERATIONS:** DO NOT FLUSH IN SEWER; mix with flammable product and incinerate in approved facility

14. **CARCINOGENIC PROPERTIES & NOTIFICATIONS:** Not a human or animal carcinogen

15. **TRANSPORT INFORMATION:** USA 49 CFR

Product identification number: UN- not regulated for transportation

Shipping name: not regulated for transportation

Classification: not regulated

Label: none required

WHMIS Class (Canada): not controlled under WHMIS

HMIS (U.S.A): Health – 0, Fire – 1 Reactivity – 0

Material use: plasticiser



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16. 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. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.
17. 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 or disposal.