



# MATERIAL SAFETY DATA SHEET

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

www.ciscochem.com

1. PRODUCT NAME: Dioctyl Phthalate
2. CHEMICAL NAME: Di (2-ethylhexyl) Phthalate
3. SYNONYMS: DOP
4. CAS NUMBER: 117-81-7
5. COMPOSITION: Di (2-ethylhexyl) Phthalate  
Cas: 117-81-7  
100%

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

6. PROPERTIES: BOILING POINT: 384 F.  
SPECIFIC GRAVITY: 0.985  
VAPOR PRESSURE: 0.0000001 (air=1)  
% VOLATILE BY VOLUME: N/I  
EVAPORATION RATE: N/A  
APPEARANCE AND ODOR: Colorless liquid, mild odor.  
PH: N/A  
SOLUBILITY IN WATER: 0.1 g/l  
% SOLID BY WEIGHT: N/A  
MATERIAL IS: Liquid  
FREEZING POINT: -50 C  
MELTING POINT: N/A  
STABILITY: Stable  
CONDITIONS TO AVOID: None  
HAZARDOUS POLYMERIZATION: Will not occur  
CONDITIONS TO AVOID: None  
INCOMPATIBLE MATERIALS: Strong oxidizing agents.  
HAZARDOUS DECOMPOSITION: None under normal use conditions.

7. HAZARDS: EFFECTS OF OVEREXPOSURE  
SKIN: Repeated or prolonged skin contact may cause skin irritation.  
EYES: May cause slight eye irritation of susceptible persons.  
INGESTION: Substance may be harmful if swallowed. May irritate mouth, throat and stomach.  
INHALATION: excessive inhalation of fumes may cause dizziness.  
HMIS: Health: 2,  
Flammability: 1,  
Reactivity: 0,  
Personal Protection: B

8. FIRE FIGHTING FIRE FIGHTING MEASURES  
INFORMATION: FLASH POINT: 216 F  
METHOD USED: C.O.C.  
FLAMMABLE; Limits  
LEL: N/A  
UEL: N/A  
EXTINGUISHING MEDIA: CO2, Dry chemical, Water fog.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH approved self-contained breathing apparatus. Use water spray to cool fire-exposed containers.  
UNUSUAL AND EXPLOSION HAZARDS: None



Carolina International Sales Co., Inc

## MATERIAL SAFETY DATA SHEET

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

www.ciscochem.com

9. PERSONAL PROTECTION RESPIRATORY PROTECTION: Use a NIOSH approved respirator when exposure to vapors of mists is anticipated.  
MEASURES: VENTILATION: Local Exhaust is recommended when handling generated mists. Direct exhaust is recommended when material becomes heated and fumes are given off.  
PROTECTIVE GLOVES: Neoprene or Viton  
EYE PROTECTION: Safety glasses or Splash goggles (ANSI Z87.1, 1968)  
OTHER PROTECTIVE EQUIPMENT: wear an impervious apron and have eyewash facility close by.
10. FIRST AID SKIN: Wash thoroughly with soap and water.  
PROCEDURES: EYES: immediately flush with plenty of water for at least 15 minutes; ensure water flushing of entire surface of eye and lid. Obtain medical attention if irritation persists.  
INGESTION: Rinse mouth and seek medical advice. DO NOT induce vomiting.  
INHALATION: Move to fresh air.
11. EXPOSURE LIMITS: OSHA PEL: 5mg/m<sup>2</sup>
12. TOXICOLOGICAL INFORMATION: GENERAL: Di (2-ethylhexyl) phthalate [bis(2-ethylhexyl) phthalate; DEHP] is reasonable anticipated to be a human carcinogen based on evidence of carcinogenicity in experimental animals (NIP 217, 1982; IARC V.29, 1982; LARC S.7, 1987). When administered in the diet, di(2-ethylhexyl) phthalate increased the incidence of hepate-cellular carcinomas in female rats, liver neoplastic nodules or hepatocellular carcinomas in male rats, and hepatocellular carcinomas in mice of both sexes. There are no adequate data available to evaluate the carcinogenicity of di(2-ethylhexyl) phthalate in humans (IARC V.29, 1982, Larc S.7, 1987).  
ACUTE TOXICITY: Oral LD50 (rat): 30,600 mg/kg  
Dermal LD50 (rabbit): N/I  
Inhalation LC50 (rats): Inhalation of concentrated vapors for 8 Hours produced no deaths.  
Skin Irritation (rabbit): Mildly irritating; Not a sensitizer (guinea Pig).  
Eye Irritation (rabbit): Mildly irritating  
LOCAL EFFECTS: Expected to be a low hazard for usual industrial handling or commercial use by trained personnel.
13. ECOLOGICAL INFORMATION: ACUTE AQUATIC EFFECTS DATA:  
96h LC50 (fathead minnow): >0.6 mg/l NOEC: 0.6/mg/l (limit of solubility in fresh water)  
96h LC50 (rainbow trout): >0.32 mg/l NOEC: 0.32 mg/l (limit of solubility in fresh water)
14. DISPOSAL CONSIDERATIONS: Material should be disposed of in accordance to current local and national regulations. RCRA: It is the responsibility of the user to determine at time of disposal whether a product or solution meets RCRA criteria for hazardous waste, as mixing, use, contamination, or soils may render the resultant mixture hazardous.
15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: CALIFORNIA PROPOSITION 65: This product is known to the state of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986
16. TRANSPORT INFORMATION: D.O.T. SHIPPING NAME: Environmentally hazardous substances, liquid, n.o.s.  
HAZARD CLASS: 9  
PACKING GROUP: III  
UN/NA NUMBER: UN 3082  
D.O.T. HAZARDOUS SUBSTANCES: (bis(2-ethylhexyl)phthalate)



Carolina International Sales Co., Inc

## MATERIAL SAFETY DATA SHEET

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

[www.ciscochem.com](http://www.ciscochem.com)

- 
17. HANDLING & STORAGE: Keep container tightly closed. Store in cool, dry location. Keep from freezing. Keep from contact with oxidizing materials. Any use of this product in elevated temperature processes should be evaluated to establish and maintain safe operating procedures.
18. ACCIDENTAL RELEASE MEASURES: Use appropriate protective equipment. Stop leak. Dike to contain spill, cover with inert absorbent material, sweep up, and place in suitable container. Flush area well with detergent. Keep spills and cleaning run-off out municipal sewers and open bodies of water. Remove contaminated clothing and wash before reuse. Wash affected skin area with soap and water.
19. REGULATORY INFORMATION: US TSCA Yes  
Toxic Substances Control Act:  
CANADA DSL Yes  
Domestic Substance List  
EEC EINECS Yes – Registration # 204-211-0  
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA). This product has the following hazards as defined in Section 311/312 or 40 CFR Part 372:  
Acute Health Hazard  
Chronic Health Hazard  
The product is the subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372  
R.Q. lbs.: 100