

Common Name: **BIS(2-ETHYLHEXYL) PHTHALATE**

Synonyms: Di(2-Ethylhexyl) Phthalate; Dioctyl Phthalate; DOP

CAS No: 117-81-7

 Molecular Formula: C₂₄H₃₈O₄

RTK Substance No: 0238

Description: Colorless to light colored, thick liquid with a slight odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 1 - Fire 0 - Reactivity DOT#: None ERG Guide #: None Hazard Class: None	COMBUSTIBLE LIQUID. Use dry chemical, CO ₂ , water spray, alcohol-resistant foam or other foam as extinguishing agents. Water or foam may cause frothing. POISONOUS GASES ARE PRODUCED IN FIRE. Use water spray to keep fire-exposed containers cool.	Bis(2-Ethylhexyl) Phthalate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); and STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE).

SPILL/LEAKS
Isolation Distance:

Small Spills: 60 meters (200 feet)

Large Spills: 330 meters (1,100 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

Bioaccumulation of this chemical may occur in seafood.

PHYSICAL PROPERTIES

Flash Point:	420°F (215°C)
LEL:	0.3% at 474°F (245°C)
Auto Ignition Temp:	662°F (350°C)
Vapor Density:	16 (air = 1)
Vapor Pressure:	<1 mm Hg at 68°F (20°C)
Specific Gravity:	0.99 (water = 1)
Water Solubility:	Insoluble
Boiling Point:	725°F (385°C)
Melting Point:	-58°F (-50°C)
Molecular Weight:	391

EXPOSURE LIMITS

OSHA:	5 mg/m ³ , 8-hr TWA
NIOSH:	5 mg/m ³ , 10-hr TWA; 10 mg/m ³ , STEL
ACGIH:	5 mg/m ³ , 8-hr TWA
IDLH LEVEL:	5,000 mg/m ³

PROTECTIVE EQUIPMENT

Gloves:	Neoprene and Laminate Film
Coveralls:	DuPont Tychem® BR, LV, TK, CSM and Responder® (>8-hr breakthrough)
Respirator:	>5 mg/m ³ - Supplied air

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose and throat irritation
Chronic:	Cancer (liver) in animals

FIRST AID AND DECONTAMINATION

Remove	the person from exposure.
Flush	eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.
Quickly	remove contaminated clothing. Wash contaminated skin with large amounts of soap and water.
Begin	artificial respiration if breathing has stopped and CPR if necessary.
Transfer	to a medical facility.