

MSDS (Material Safety Data Sheet)	PAGE
Di Octyl Phthalate	1/5

# 1.CHEMICALPRODUCT&COMPANYIDENTIFICATION

- Substance Di Octyl Phthalate (DOP)
- CAS NO 117-81-7
- RTECS NO T I 0350000
- Trade Names/Synonyms (DOP)
- Chemical Family Ester, Carboxylic, Aromatic

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

- Component Di(2-Ethylhexyl) Phthalate
- CAS NO 117-81-7
- Percentage 100%

## 3. HAZARD IDENTIFICATION

- Fire=1, Reactivity=0
- Emergency Overview A I m o s t odorless to pale yellow, Oily liquid.
- Potential Health Effects

## **OInhalation**

- Short Term Exposure May cause irritation. Additional effects may include nausea.
- Long Term Exposure May cause numbness.

## **OSkinContact**

- Short Term Exposure May cause irritation.
- Long Term Exposure No information is available.

## 0EveContact

- Short Term Exposure No information on significant adverse effects.
- Long Term Exposure No information is available.

# **OIngestion**

Short Term Exposure May cause nausea, diarrhea and stomach pain.





# Carcinogen Status

00SHA N

**OIARC N** 

## 4. FIRST AID MEASURES

#### Inhalation

0Remove from exposure area to fresh air immediately.

0Perform artificial respiration if necessary.

0Get medical attention immediately.

Skin Contact

0Remove contaminated clothing and shoes immediately.

0Wash with soap or mild detergent and large amount of water until no evidence of chemical remains (atleast 15-20 minutes).

0Get medical attention immediately.

Eye Contact

0Wash eyes immediately with large amount of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20minutes).

0Get medical attention immediately.

Ingestion

OIf the person is conscious and not convulsing, induce emesis by giving syrup of ipecac followed by water.

OIf vomiting occurs, keep head below the hip stop event aspiration.

0Get medical attention immediately.

#### 5. FIRE FIGHTING MEASURES

- Fire and Explosion Hazards: Slightly fire hazard when exposed to heat or flame.
- Extinguishing Media: Dry chemical, carbon dioxide, water spray, or regular foam.
- Large Fires: Use water spray, fog or regular foam.
- Fire Fighting

0Move container from fire area if it can be done without risk.

0Do not scatter spilled material with high-pressure water streams.

0Dike fire-control water for later disposal.

OUse agents suitable for type of surrounding fire.

0Avoid breathing hazardous vapors, keep up wind.

OWater or foam may cause frothing.

- Flash Point 215C (419F) (CC)
- Lower Flammable Limits 0.3% @ 245C(474F)





- Upper Flammable Limits No data available.
- Autoignition 3 9 0 C (734F)
- Flamm ability Class (OSHA) IB

## 6. ACCIDENTAL RELEASE MEASURES

Occupational Spill

OStop leak if you can do it without risk.

0For small spills take up with sand or other absorbent material and place into clean, dry containers for later disposal.

0Keep unnecessary people away, isolate hazard area and deny entry.

## 7.HANDLING&STORAGE

- Observe all fedral, state and local regulations when storing this substance.
- Store away from incompatible substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

05g/'OSHA TWA

05g/'ACGIHTWA

05g/'NIOSH recommended 10 hour TWA 10g/'NIOSH recommended STEL

Ventilation

0Provide local exhaust ventilation to meet published exposure limits.

0Ventilation equipment should be explosion-resistant if explosive concentration so fvapor, dust, or fume are present.

Eye Protection

0Employee must wear splash-resistant or dust-resistant safety goggles to prevent eye contact with this substance.

0Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing

0Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves

0Employee must wear appropriate protective gloves to prevent contact with this substance.



# Respirator

0The following respirators and maximum use concentrations are recommendations by the U.S Department of Health and Human Service, NIOSH Pocket Guide to Chemical Hazards.

- At any detectable concentration
  - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
- Escape
  - Any air-purifying, full facepiece respirator with a high-efficiency particulate filter.
  - 0For firefighting and other immediately dangerous to life or health conditions
- Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-damand or other positive-pressure mode.

## 9.PHYSICAL&CHEMICALPROPERTIES

- Description Almost odorless, colorless to pale tellow, oily liquid.
- Molecular Weight 390.56
- Molecular Formula C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>
- Boiling Point 384C (723F)
- Freezing Point 55C (-67F)
- Vapor Pressure 1 .32mmHg @ 200C
- Vapor Density (Air=1) 16
- Specific Gravity (water=1) 0.981
- Water Solubility 0.005% @ 20C
- pH No data available
- Volatility No data available.
- Odor Threshold No data available.
- Evaporation Rate No data available.
- Viscosity 84.1 cP @ 20C
- Solvent Solubility Soluble in hexane, mineral oil.

#### 10.STABILITY&REACTIVITY

- Reactivity Stable at normal temperatures and pressure.
- Conditions to Avoid 0Avoid contact with strong oxidizers, excessive heat, sparks, or open flame.
- Incompatibilities
  - OAcids(strong) Incompatible.
  - OBases(strong) Incompatible.
  - Oxidizers(strong) Fire and explosion hazard.



# Hazardous Decomposition

0Thermal decomposition products Oxides of carbon.

Polymerization Hazardous polymerization has not been reported to occur under normal temperature and pressure.

## 11. TOXICOLOGICAL INFORMATION

Irritation Data

0500g/24hours skin-rabbit mild.

0500g/eyes-rabbit mild.

0500g/24hours eyes-rabbit mild.

Toxicity Data

0LD50 25g/gskin-rabbit,30g/goral-rat.

Acute Toxicity Level Relatively non-toxic (Dermal absorption, ingestion)

## 12. ECOLOGOCAL INFORMATION

No data available.

#### 13. DISPOSAL CONSIDERATIONS

- Observe all fedral, state and local regulatuons when disposing of this substance.
- Disposal must be in accordance with standards applicable to generators of hazardous waste, 40CFR262.
- EPA hazardous waste number U028.

## 14. TRANSPORT INFORMATION

No classification currently assigned.

# 15. REGULATORY INFORMATION

Section 4 CERCLA section 103(40CFR302.4) Y

0Di (2-Ethyhexyl) Phthalate 100LBSRQ

SARA hazard categories, SARA sections 311/312(40CFR370.21)

0Acute hazard N

0Chronic hazard Y

OFire hazard N

0Reactive hazard N

0Sudden release N

- OSHA process safety (29CFR1910.119)
- California proposition 65 Y

# 16. OTHER INFORMATION

