

DI BUTYL PHTHALATE

1. Chemical product and company identification

A. Product name : Di Butyl Phthalate
B. Trade Name/Synonym : Phthalic Acid, Di Butyl Ester, Di-N-Butyl Phthalate, 1, 2- benzenedicarboxylic Acid, DiButyl Ester, benzene-O-Dicarboxylic Acid, Di-N Butyl Ester.
Chemical Family : Ester, carboxylic, Aromatic
Chemical Formula : C6H10O

C. Manufacturer / Supplier / Distributor Information

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Composition	CAS #	Percentage
Di Butyl Phthalate	84-74-2	100%

Toxicological Data on Ingredients : Cyclohexanone : ORAL (LD50) Acute : 1516 mg/ kg [Rat.] 1400 mg/ kg [mouse] DERMAL (LD50) : Acute : 948 mg/ kg [Rabbit]

3. HAZARD IDENTIFICATION

NFPA ratings (Scale 0-4): Health = 2, Fire= 1, Reactivity= 0

Emergency overview: Colorless to yellow, oily liquid

Major health hazrds: harmful if inhaled, respiratory tract irritation, eye irritation

Potential health effects

Inhalation:

Short term exposure: Irritation, difficulty breathing, headache, drowsiness, dizziness, paralysis, convulsions.

Long term exposure: Same effects as short term exposure . Skin contact

Short term exposure: Irritation

Long term exposure: no information is available.

Eye contact:

Short term exposure: irritation

Long term exposure: irritation

DISCLAIMER

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Ingestion

Short term exposure: Vomiting, digestive disorders, headache, dizziness

Long term exposure: no information on significant adverse effects.

Carcinogen status

OSHA: N

NTP: N

IARC: N

4. FIRST AID MEASURES**INHALATION**

- Remove from exposure area to fresh air immediately
- Perform artificial respiration if necessary,
- Get medical attention immediately.

SKIN CONTACT

- Remove from exposure area to fresh air immediately
- Perform artificial respiration if necessary,
- Get medical attention immediately.

EYE CONTACT

- Wash eyes immediately with large amount of water
Occasionally lifting upper and lower lids
Until no evidence of chemical remains (at least 15-20 minutes)
- Get medical attention immediately.

INGESTION

- get medical attention immediately.

NOTES TO PHYSICIAN

- For ingestion, consider gastric lavage and feces,
- Consider oxygen.

5 . FIRE FIGHTING MEASURES**Fire and Explosion Hazards**

- Slightly fire hazards
- Electrostatic charges may be generated by flow,
- Agitation, etc. May result in ignition or explosion.

Extinguishing media

- Dry chemical,
- Regular foam water.

Large Fires

- Use regular foam or foam with fine water spray.

Fire fighting

- Move container from fire area if it can be done without risk
- Fight large fires a protected location or safe distance.

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- Stay away from the ends of tanks.
- Do not scatter spilled material with high- pressure water streams.
- Dike fire- control water for lateral disposal.
- Use agents suitable for type of surrounding fire.
- Cool containers with water spray until well after the fire is out.
- Stay upwind and keep out of low areas.
- Water or foam may cause frothing.

Flash Point	: 157°C (315°F) (CC)
Lower Flammable Limits	: 0.5% @ 235°C
Upper Flammable Limits	: 2.5%
Auto ignition	: 402°C (756°F)
Flammability Class (OSHA)	: III B

6. ACCIDENTAL RELEASE MEASURES

Air Release

- Reduce vapors with water spray
- Stay upwind and keep out of low areas.

Soil Release

- Dig Holding area such as lagoon, pond or pit for cotainment.
- Dike for later disposal.
- Absorb with sand or other non-combustile material

Water Release

- Cover with absorbent sheets, spill-control pads or pillows.
- Collect with absorbent into suitable container.
- Absorb with activated carbon
- Collect spilled material using mechanical equipment

Occupational Spill

- Do not touch spilled material.
- Stop leak if you can do it without risk.
- Reduce vapors with water spray.
- Small Spill : Absorb with sand or other non- combustile material
- Collect spilled material in appropriate container for disposal.
- Large Spill : Dike for later disposal.
- Keep unnecessary people away, isolate hazard area and deny entry.
- Notify local emergency planning committee and state emergency commission for release greater than or equal to RQ (U.S SARA section 304).

7. HANDLING & STORAGE

- Store and handling in accordance with all current regulations and standards.
- Store in a tightly closed container.
- Store in a cool, dry place, well- ventilated area.
- Keep separated from incompatible substances.

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Limits

- 5mg/m³ OSHA TWA
- 5mg/m³ ACGIH TWA
- 5mg/m³ NIOSH recommended 10 hour TWA

Ventilations

- Provide local exhaust ventilation or process enclosure ventilation system.
- Ensure compliance with applicable exposure limits.

Eye Protection

- Wear splash resistant safety goggles.
- Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing

- Wear appropriate chemical resistant clothing.

Gloves

- Wear appropriate chemical resistant gloves.

Respirator

- Respiratory equipment must be certified by NIOSH/ OSHA.
- The following respirators and maximum use concentrations are drawn from NIOSH OSHA.
- 50mg/m³
Any dust and mist respirator with a full facepiece.
- 125mg/m³
Any supplied-air respirator.
- Any powered, any purifying respirator with a dust and mist filter
- 250mg/m³
Any air-purifying respirator with a full face-piece and a high-efficiency particulate filter
- Any self-contained breathing apparatus with a full facepiece.
- Any supplied- air respirator with a full facepiece.

9. PHYSICAL & CHEMICAL PROPERTIES

Description	: Colorless to yellow, oily liquid
Molecular Weight	: 278.35
Molecular Formula	: C ₁₆ H ₂₂ O ₄
Boiling Point	: 340°C (644 deg F)
Freezing Point	: -35°C (-31°F)
Vapor Pressure	: <0.01 mmHg @ 20°F
Vapor Density (Air= 1)	: 9.58
Specific Gravity (water=1)	: 1.047
Water Solubility	: 4500ppm @ 25°C
pH	: No data available
Volatility	: 0%
Odor Threshold	: 5ppm
Evaporation rate	: 0 (Butyl acetate =1)
Viscosity	: 20 cP @ 20°C
Solvent Solubility	: Soluble: Acetone, alcohol, ether, benzene, organic solvents.

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10. STABILITY & REACTIVITY

Reactivity	: Stable at normal temperatures and pressure.
Conditions to Avoid	- Avoid heat, flames, sparks and other sources of ignition. - Containers may rupture or explode if exposed to heat.
Incompatibilities	- Acids, bases, oxidizing materials, reducing agents.
Hazardous Decomposition	Thermal decomposition products : Oxides of carbon
Polymerization:	Will not polymerize.

11. TOXICOLOGICAL INFORMATION

Toxicity Data

LD50 : >20 ml/kg skin-rabbit, 7499mg/kg oral- rat.

LC50 : 4250mg/m³ inhalation-rat

Local effects:	Irritant (inhalation-eye)
Acute Toxicity Level:	Toxic (inhalation), Slightly Toxic (ingestion)
Medical conditions aggravated exposure:	Kidney problem
Mutagenic data:	Available.
Reproductive effects data:	Available.

12. ECOLOGICAL INFORMATION

Ecotoxicity data

Fish Toxicity	: 700 µg/ℓ 96hour LC50 (Mortality) - Bluegill
Invertebrate Toxicity	: 540 µg/ℓ 17 hour EC50 (regeneration) - Flatworm
Algal toxicity	: 3.4 µg/ℓ 96year EC50 (Growth) - Dinoflagellate
Other toxic	: 340 µg/ℓ 2 week (population)- Aquatic community
Fate and transport	
Bioconcentration	: 3500 µg/ℓ 24day BCF(Residue)- Midge 0.18 µg/ℓ

13. DISPOSAL CONSIDERATIONS

- Dispose in accordance with all applicable regulations.
- Subject to disposal regulations : U.S EPA 40CFR262. Hazardous waste number (s) : U069

14. TRANSPORT INFORMATION

- No classification currently assigned.

15. REGULATORY INFORMATION

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

- Di Butyl Phthalate : 10 LBS RQ

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

- Acute hazards:** Y
- Chronic hazard:** N
- Fire hazard:** N
- Reactive hazard:** N
- Sudden release:** N

OSHA process safety (29CFR1910.119): N

California proposition 65: N