

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

§ Product Name	: DIBUTYL PHTHALATE
§ Synonym	: 1,2-Benzenedicarboxylic acid dibutylester n-Butyl phthalate
§ Molecular Mass	: 278.3
§ Molecular Formula	: C <sub>6</sub> H <sub>22</sub> O <sub>4</sub>

## II. INFORMATION IN INGREDIENT

§ Assay, wt%	: 99.5 %wt min
§ Water Content, wt%	: 0.1 %wt max

## III. HAZARDS IDENTIFICATION

§ Color	: Colourless to yellow viscous liquid
§ Odor	: Characteristic
§ Effect of over exposure	: Contact with skin or eyes may cause minor temporary irritation
§ Emergency and first aid procedures	: flush eyes with plenty amount of water for a minimum of 15minutes. Wash contacted skin areas with soap and water. If irritation develops, consult a physician. Soaked clothing should be change immediately

## IV. FIRST AID MEASURES

§ First aid procedures – eyes	: First rinse with plenty of water for several minutes (remove contact lenses if irritation develops easily possible), then take to a doctor.
§ First aid procedures – skin	: Remove contaminated clothes. Rinse skin with plenty of water or shower develops
§ First aid procedures – ingestion	: Rinse mouth, give plenty of water to drink. Refer for medical attention
§ First aid procedures – inhalation	: Fresh air and rest.

## V. FIRE FIGHTING MEASURES

§ Flash point	: (see physical data section)
§ Flammable limits in air, % by volume	: Unknown
§ Lower : Undetermined	Upper : Indetermined
§ Extinguishing Media	: Use carbon dioxide or dry chemical on small fires. Use foam Alcohol, polymer or ordinary) and water spray for large fires.
§ Special Fire Fighting Procedures	: Self – Contained breathing apparatus and protective clothing should Be worn in fighting fires involving chemicals

## VI. ACCIDENTAL RELEASE MEASURE

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Collect leaking and spilled liquid in sealable containers as far as possible,. Adsorb remaining liquid in vermiculite, sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.

## VII. STORAGE AND HANDLING

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You should store this chemical under refrigerated temperatures and keep away from oxidizers, mineral acids and bases.

## VIII. PERSONAL PROTECTION

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- § Ventilation :
  - 1. Local exhaust : None should be needed
  - 2. Respiratory protection (type) : Canister for organic vapors  
(i.e. type GMA from Mine Safety Appliance Co.)
- § Protective Clothing : Clean, body-covering clothing. In addition, rubber gloves, boots and apron,  
Depending upon the exposure likely, or as required by your company)
- § Eye protection : Safety goggles recommended

## IX. PHYSICAL PROPERTIES

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- § Boiling Point : 340 °C
- § Melting Point : -35 °C
- § Relative Density (Water=1) : 1.05
- § Solubility in water, g/100 ml at 25°C : 0.001
- § Vapor Pressure, Kpa at 20°C : 0.01
- § Relative Vapor Density (air=1) : 9.58
- § Relative density of the vapor/  
Air-mixture at 20°C (air=1) : 1.00
- § Flash point : cc. 157 °C
- § Autoignition temperature : 402 °C
- § Explosive limits, vol% in air : 0.5 (at 235°C) to about 2.5
- § ctanol/water partition coefficient as log Pow : 4.72

## X. STABILITY AND REACTIVITY

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- § Stability : Stable
- § Condition to avoid : see above statement

## XI. TOXICOLOGICAL INFORMATION

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No applicable data for this section.

## **XII. ECOLOGICAL INFORMATION**

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This Substance may hazardous to the environment; special attention should be given to water. Do not take working clothes home.

## **XIII. DISPOSAL CONSIDERATION**

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You should dispose of all awaste and contaminated materials associated with this chemical as specified by existing local, sate and federal regulations concerning hazardous waste disposal. It suggested that your contaminated materials should destroyed by incenerating in a special, high temperature (>2000 °F) chemical incenerator facility.

## **XIV. TRANSPORTATION INFORMATION**

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Not regulated by the departement of transportation.

## **XV. REGULATORY INFORMATION**

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No additional information.

## **XVI. OTHER INFORMATION**

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No additional information.