

# MATERIAL SAFETY DATA SHEET

## Dibutyl phthalate

<b>MSDS Name:</b>	Dibutyl Phthalate 99%
<b>Synonyms:</b>	n-Butyl phthalate; DBP
<b>Company Identification: (INDIA)</b>	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
<b>For information in the INDIA, call:</b>	Tel: +91 - 22 - 2275 5555 / 6184 0000, Fax: +91 - 22 - 2275 5556 / 6184 0001

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
84-74-2	Dibutyl phthalate	99%	201-557-4

<b>Hazard Symbols:</b>	T N
	
<b>Risk Phrases:</b>	61 50 62

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Very toxic to aquatic organisms. May cause harm to the unborn child. Possible risk of impaired fertility.*

#### Potential Health Effects

<b>Eye:</b>	May cause eye irritation. Causes redness and pain.
<b>Skin:</b>	May cause skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.
<b>Ingestion:</b>	May cause irritation of the digestive tract. May be harmful if swallowed.
<b>Inhalation:</b>	May cause respiratory tract irritation. May be harmful if inhaled.
<b>Chronic:</b>	Prolonged or repeated exposure may cause nausea, dizziness, and headache.

### Section 4 - First Aid Measures

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways.

## Section 7 - Handling and Storage

<b>Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
<b>Storage:</b>	Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	
	Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	
	CAS# 84-74-2:
United Kingdom,	WEL - TWA: 5 mg/m3 TWA United Kingdom, WEL - STEL: 10 mg/m3 STEL
United States	OSHA: 5 mg/m3 TWA
Belgium	TWA: 5 mg/m3 VLE
France	VME: 5 mg/m3 VME
Japan:	5 mg/m3 OEL
Malaysia:	1 ppm TWA; 8.6 mg/m3 TWA
Russia:	0.5 mg/m3 TWA (aerosol and vapour)
Spain:	5 mg/m3 VLA-ED
<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	almost colorless
<b>Odor:</b>	ester-like
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	< .013 mbar @ 20 deg C
<b>Viscosity:</b>	22 cP 20 deg C
<b>Boiling Point:</b>	340 deg C @ 760 mmHg ( 644.00°F)
<b>Freezing/Melting Point:</b>	-35 deg C ( -31.00°F)
<b>Autoignition Temperature:</b>	390 deg C ( 734.00 deg F)
<b>Flash Point:</b>	188 deg C ( 370.40 deg F)
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	0.13 g/l
<b>Specific Gravity/Density:</b>	1.0430g/cm3
<b>Molecular Formula:</b>	C16H22O4

<b>Molecular Weight:</b>	278.34
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## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Incompatible materials.
<b>Incompatibilities with Other Materials</b>	Oxidizing agents, acids, bases, liquid chlorine, nitrates.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 84-74-2: TI0875000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 84-74-2:</b> Inhalation, mouse: LC50 = 25 gm/m3/2H; Inhalation, rat: LC50 = 4250 mg/m3; Oral, mouse: LD50 = 3474 mg/kg; Oral, rat: LD50 = 7499 mg/kg; Skin, rabbit: LD50 = >20 mL/kg;
<b>Carcinogenicity:</b>	Dibutyl phthalate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

<b>Ecotoxicity:</b>	Fish: LC50: 0.85 mg/l; 96H; . Daphnia: EC50: 3 mg/l; 48H; .
<b>Other:</b>	Biodegradable. Avoid entering into waters or underground water. log Pow: 4.6-4.9

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S.*	Environmentally Hazardous Substance, Liquid, N.O.S.	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class:	9	9	9
UN Number:	3082	3082	3082
Packing Group:	III	III	III
Shipping Name:		IMO	RID/ADR

USA RQ: CAS# 84-74-2: 10 lb final RQ; 4.54 kg final RQ
Severe Marine Pollutant

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

#### Risk Phrases:

- R 61 May cause harm to the unborn child.
- R 50 Very toxic to aquatic organisms.
- R 62 Possible risk of impaired fertility.

#### Safety Phrases:

- S 53 Avoid exposure - obtain special instructions before use.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets

### WGK (Water Danger/Protection)

- CAS# 84-74-2: 2

### Canada

- CAS# 84-74-2 is listed on Canada's DSL List

### US Federal

- TSCA
- CAS# 84-74-2 is listed on the TSCA Inventory.

## Section 16 - Other Information

<b>MSDS Creation Date:</b>	July 22, 2015
<b>Revision #0 Date</b>	

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*