

# MATERIAL SAFETY DATA SHEET

## Diocetyl phthalate

<b>MSDS Name:</b>	Diocetyl Phthalate, 99+%
<b>Synonyms:</b>	Di(2-ethylhexyl)phthalate
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
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## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
117-81-7	Diocetyl phthalate	99+%	204-211-0

<b>Hazard Symbols:</b>	T
	
<b>Risk Phrases:</b>	60 61

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*May impair fertility. May cause harm to the unborn child.*

### Potential Health Effects

<b>Eye:</b>	May cause mild eye irritation. Causes redness and pain.
<b>Skin:</b>	May cause mild skin irritation.
<b>Ingestion:</b>	Ingestion of large amounts may cause gastrointestinal irritation. May cause central nervous system depression.
<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Chronic:</b>	

## 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. Get medical aid.
<b>Notes to Physician:</b>	

## 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>	Water or foam may cause frothing. Use water spray to cool fire-exposed containers. 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.

## Section 7 - Handling and Storage

<b>Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.
<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# 117-81-7:
	United Kingdom, WEL - TWA: 5 mg/m <sup>3</sup> TWA United Kingdom, WEL - STEL: 10 mg/m <sup>3</sup> STEL
	United States OSHA: 5 mg/m <sup>3</sup> TWA
	Belgium - TWA: 5 mg/m <sup>3</sup> VLE Belgium - STEL: 10 mg/m <sup>3</sup> VLE
	France - VME: 5 mg/m <sup>3</sup> VME
	Germany: 10 mg/m <sup>3</sup> TWA
	Japan: 5 mg/m <sup>3</sup> OEL
	Malaysia: 5 mg/m <sup>3</sup> TWA
	Spain: 5 mg/m <sup>3</sup> VLA-ED

<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<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>	Not available
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	0.01 mbar @ 20 deg C
<b>Viscosity:</b>	80 cPs @ 20 deg C
<b>Boiling Point:</b>	354 deg C @ 760 mmHg ( 723.20°F)
<b>Freezing/Melting Point:</b>	-50 deg C ( -58.00°F)
<b>Autoignition Temperature:</b>	390 deg C ( 734.00 deg F)
<b>Flash Point:</b>	199 deg C ( 390.20 deg F)
<b>Explosion Limits: Lower:</b>	0.1 Vol%
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Insoluble
<b>Specific Gravity/Density:</b>	0.981 g/cc
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	390.56

## 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>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	Has not been reported.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 117-81-7: TI0350000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 117-81-7:</b> Dermal, guinea pig: LD50 = 10 gm/kg; Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Oral, mouse: LD50 = 1500 mg/kg; Oral, mouse: LD50 = 29.5 gm/kg; Oral, rabbit: LD50 = 34 gm/kg; Oral, rat: LD50 = 30 gm/kg; Skin, rabbit: LD50 = 25 gm/kg;
<b>Carcinogenicity:</b>	Diocetyl phthalate - ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans California: carcinogen, initial date 1/1/88 NTP: Suspect carcinogen IARC: Group 3 (not classifiable)
<b>Other:</b>	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

## Section 12 - Disposal Considerations

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

## Section 13 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

USA RQ: CAS# 117-81-7: 100 lb final RQ; 45.4 kg final RQ

## Section 14 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

#### Risk Phrases:

- R 61 May cause harm to the unborn child.
- R 60 May impair fertility.

#### Safety Phrases:

- S 36/37 Wear suitable protective clothing and gloves.

#### WGK (Water Danger/Protection)

- CAS# 117-81-7: 1

#### Canada

- CAS# 117-81-7 is listed on Canada's DSL List

#### US Federal

- TSCA
- CAS# 117-81-7 is listed on the TSCA Inventory.

## Section 15 - 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.*

### Applications:

In water-based emulsion paints

in textiles

in paper coatings

in leather finish resins

in adhesives