

MATERIAL SAFETY DATA SHEET


Diisobutyl phthalate

MSDS Name:	Diisobutyl Phthalate
Synonyms:	DIBP

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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
84-69-5	Diisobutyl phthalate	99	201-553-2

Hazard Symbols:	T
	
Risk Phrases:	61 62

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

May cause harm to the unborn child. Possible risk of impaired fertility.

Potential Health Effects

Eye:	May cause eye irritation. Causes redness and pain.
Skin:	May cause skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful if swallowed. May cause central nervous system depression.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:	Prolonged or repeated exposure may cause nausea, dizziness, and headache. Possible risk of harm to the unborn child. May impair fertility.

Section 4 - First Aid Measures

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

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
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Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.
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Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	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

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

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:	
	Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	
	CAS# 84-69-5:
	United Kingdom, WEL - TWA: 5 mg/m ³ TWA United Kingdom, WEL - STEL: 15 mg/m ³ STEL
	Russia: 1 mg/m ³ TWA (aerosol and vapour)

Personal Protective Equipment

Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	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

Physical State:	Clear liquid
Color:	APHA: 50 max
Odor:	ester-like
pH:	Not available
Vapor Pressure:	<0.01mmHg @20 deg C
Viscosity:	Not available
Boiling Point:	327 deg C @760mmHg (620.60°F)
Freezing/Melting Point:	-64 deg C (-83.20°F)
Autoignition Temperature:	432 deg C (809.60 deg F)
Flash Point:	185 deg C (365.00 deg F)
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Insoluble
Specific Gravity/Density:	1.038

Molecular Formula:	C16H22O4
Molecular Weight:	278.34

Section 10 - Stability and Reactivity

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

Section 11 - Toxicological Information

RTECS#:	CAS# 84-69-5: T11225000
LD50/LC50:	RTECS: CAS# 84-69-5: Dermal, guinea pig: LD50 = 10 gm/kg; Oral, mouse: LD50 = 10 gm/kg; Oral, rat: LD50 = 15 gm/kg;
Carcinogenicity:	Diisobutyl phthalate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated. Teratogen.

Section 12 - Ecological Information

Ecotoxicity:	Daphnia: EC50: 7.4 mg/l; 24H; . Fish: Pimephals prome: LC50: 0.9 mg/l; 96H; . Algae: Pimephals prome: EC50: 1 mg/l; 72H; .
Other:	Biodegradable. Avoid entering into waters or underground water. log Pow: 4.1

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - 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 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).

WGK (Water Danger/Protection)

- CAS# 84-69-5: 2

Canada

- CAS# 84-69-5 is listed on Canada's DSL List

US Federal

- TSCA
- CAS# 84-69-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	July 24, 2015
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Revision #0 Date	
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