



## Safety Data Sheet (SDS)

Revision / Review Date: 9/03/14

### 1. Chemical Product and Company Identification

Product Name:	DBP
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name:	Di n-butyl phthalate
Chemical Family:	Esters
CAS Number:	84-74-2
Product Use:	Manufacture
Molecular Weight:	278.34 g/mol

For emergency health, safety, and environmental information, calls 330-920-8023  
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

### 2. Hazard(s) Identification

<u>Classification of the substance or mixture:</u>	GHS classification in accordance with 29 CFR 1910 (OSHA HCS) Reproductive toxicity (Category 1 B), H360 Acute aquatic toxicity (Category 1), H400
--	---

Label:



Signal Word:

Danger

Hazard statement:

May damage fertility or the unborn child.  
Very toxic to aquatic life

Precautionary statements:

Do not handle until all safety precautions have been read and understood. Avoid release to the environment

Use personal protective equipment as required. If exposed or concerned get medical advice/attention.  
Collect spillage. Dispose of contents/containers to an approved waste disposal plant.

### 3. Composition / Information on Ingredients

Dibutyl phthalate included in the Candidate List of Substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

<u>Chemical Name</u>	<u>CAS #</u>	<u>Concentration</u>
Dibutyl Phthalate	84-74-2	100%

### 4. First Aid Measures

<u>General advise:</u>	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
<u>Inhalation:</u>	If symptoms develop, move victim away from exposure and into fresh air. Administer oxygen if breathing is difficult.
<u>Eyes:</u>	Flush eyes with copious quantities of water while holding eyelids open. If symptoms persist or if there is any visual difficulty, consult physician.
<u>Skin:</u>	Remove contaminated clothing and launder it before reuse. Wash exposed area with soap and water. If irritation persists, consult a physician.
<u>Ingestion:</u>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<u>Most important symptoms and effects both Acute and delayed:</u>	The most important known symptoms and effects are described in section 2.

### 5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Water Spray, Dry Chemical, Carbon Dioxide CO2, alcohol-resistant foam .
<u>Special Fire Fighting Procedures:</u>	Wear self-contained breathing apparatus for firefighting if necessary.
<u>Special hazards arising from the substance or mixture:</u>	Carbon oxides
<u>Unusual fire and explosion hazards:</u>	None

### 6. Accidental Release Measures

<u>Steps to be taken in case material is Spilled:</u>	Wear appropriate personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate Ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
---	--

<u>Environmental Disposal Information:</u>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<u>Waste Disposal:</u>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For disposal see section 13.

<b><u>7. Handling and Storage:</u></b>	
<u>Precautions to be taken in handling:</u>	Avoid inhalation of vapor or mist.
<u>Conditions for Storage:</u>	Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

<b><u>8. Exposure Controls / Personal Protection</u></b>	
<u>Exposure Controls:</u>	Handle in accordance with good industrial hygiene and safety practices. Wash hand before breaks and at the end of workday.
<u>Respiratory Protection:</u>	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multipurpose combination (US) or type ABEK (EN14387) respirator cartridges a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).
<u>Protective Gloves:</u>	Handle with nitrile rubber chemical gloves. Dispose of contaminated gloves after use. Wash and dry hands.
<u>Eye Protection:</u>	Wear safety glasses or chemical goggles to prevent eye contact as necessary. Wear a face shield if so lashing is a problem.
<u>Skin and Body Protection:</u>	Wear impervious clothing, including boots, gloves, lab coat, apron coveralls as appropriate to prevent skin contact. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<u>Decontamination Facilities:</u>	Eye bath, washing facilities (sinks / showers)

<b><u>9. Physical and Chemical Properties</u></b>	
<u>Physical Form:</u>	Liquid
<u>Appearance &amp; Odor:</u>	Clear/Characteristic.
<u>Specific Gravity:</u>	1.048

<u>Boiling Point:</u>	340° C
<u>Solubility in Water</u>	11.2 mg/l
<u>Flash Point (COC)</u>	191° C
<u>Vapor Density :</u>	9.6
<u>Vapor Pressure (20° C):</u>	0.0000189 mbar
<u>Freezing Point:</u>	-35° C
<u>Viscosity (25°C):</u>	15 mPa.s

## **10. Stability and Reactivity**

<u>Stability:</u>	Stable under recommended storage conditions.
<u>Incompatibility (Materials to Avoid):</u>	Strong oxidizing agents, Nitrates, Bases, acids, Chlorine.
<u>Conditions to Avoid:</u>	No data available.
<u>Hazardous decomposition products:</u>	Other decomposition products, No data available.

## **11. Toxicological Information**

Information on toxicological effects:

### **Acute toxicity**

LD50 Oral - rat - 8,000 mg/kg

LC50 Inhalation - rat - 4,250 mg/m<sup>3</sup>

LD50 Dermal - rabbit - > 20,860 mg/kg

no data available

### **Skin corrosion/irritation**

Skin - rabbit

Result: No skin irritation

(OECD Test Guideline 404)

### **Serious eye damage/eye irritation**

Eyes - rabbit

Result: No eye irritation

(OECD Test Guideline 405)

### **Respiratory or skin sensitisation**

Maximisation Test - guinea pig

Result: Does not cause skin sensitisation.

(OECD Test Guideline 406)

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

Presumed human reproductive toxicant

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: TI0875000

Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

**12. Ecological Information**

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.85 mg/l - 96.0 h  
NOEC - Pimephales promelas (fathead minnow) - 0.32 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 3.7 mg/l - 48 h

**Persistence and degradability**

Biodegradability Result: 81 % - Readily biodegradable.  
(C.4-C of the COUNCIL REGULATION (EC) No 440/2008)

**Bioaccumulative potential**

Bioaccumulation Pimephales promelas (fathead minnow) - 11 d  
- 0.0348 mg/l

Bioconcentration factor (BCF): 2,165  
Remarks: Does not bioaccumulate.

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

no data available



### 13. Disposal Considerations

Product:

Offer surplus and non-recyclable solution to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### 14. Transport Information

#### **DOT (US)**

UN number: 3082      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)  
Reportable Quantity (RQ): 10 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### **IMDG**

UN number: 3082      Class: 9      Packing group: III      EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyl phthalate)  
Marine pollutant: Marine pollutant

#### **IATA**

UN number: 3082      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)

### 15. Regulatory Information

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Dibutyl phthalate	84-74-2	2007-07-01

#### **SARA 311/312 Hazards**

Chronic Health Hazard

#### **Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Dibutyl phthalate	84-74-2	2007-07-01

#### **Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Dibutyl phthalate	84-74-2	2007-07-01

#### **New Jersey Right To Know Components**

	CAS-No.	Revision Date
Dibutyl phthalate	84-74-2	2007-07-01

#### **California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	84-74-2	2008-06-17

Dibutyl phthalate

### 16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.

HB Chemical 1665 Enterprise Parkway Twinsburg, Ohio 44087

Phone 330-920-8023 Fax 330-920-0971

[www.hbchemical.com](http://www.hbchemical.com)