



## Safety Data Sheet (SDS)

Revision / Review Date: 12/5/14

### 1. Chemical Product and Company Identification

Product Name:	BBP
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Butyl benzyl phthalate
Chemical Formula:	C19-H20-O4
Molecular Weight via GPC, Mn:	312.36 g/mole
Product Use:	Laboratory chemicals, Manufacture of substance
OSHA Status:	Hazardous
CAS No:	85-68-7

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

#### Warning:



#### Potential chronic health effects:

The substance may be toxic to blood, the nervous system, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. May cause harm to the unborn child. Possible risk of impaired fertility.

#### Skin:

Prolonged or repeated skin contact may cause irritation.

#### Eyes:

Prolonged or repeated contact may cause eye irritation.

#### Ingestion:

Prolonged or repeated ingestion may cause weight loss, affect the blood (circulation, clotting), behavior/central nervous system/nervous system (see acute ingestion), liver (changes in liver function tests), urinary system (kidneys, bladder), endocrine system (thyroid), spleen.

#### Primary Routes of Entry:

Absorbed through skin and eye contact.

#### Eye Contact:

May cause eye irritation.

<u>Skin Contact:</u>	May cause skin irritation. It may be absorbed through the skin.
<u>Ingestion:</u>	Ingestion may cause nausea, decreased appetite. It may affect behavior/central nervous system/nervous system/ (CNS depression - headache, weakness, ""pins and needles sensation", somnolence, withdrawal, dizziness, lightheadedness, incoordination, loss of consciousness).
<u>Inhalation:</u>	Inhalation of mist or vapor may cause respiratory tract irritation.
<u>HMIS Label:</u>	Health- 1, Fire - 1, Reactivity - 0, Protection-B
<u>HMIS limitation statement:</u>	The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.

### 3. Composition / Information on Ingredients

CAS No.	Concentration	Component
85-68-7	90-100%	Benzyl butyl phthalate

### 4. First Aid Measures

<u>Inhalation:</u>	Remove to fresh air; give artificial respiration or oxygen if necessary.
<u>Eyes:</u>	Flush eyes with water for 15 minutes. Call a physician if irritation develops.
<u>Skin:</u>	Wash skin with soap and water. If in contact with hot product, treat as a burn. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<u>Ingestion:</u>	Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical attention.

### 5. Fire-Fighting Measures

<u>Fire Fighting Procedures:</u>	Use Chemical foam, CO2, Dry Chemical, water fog. Treat as burning oil. Keep drums as cool as possible to avoid expansion, explosions, and splattering.
<u>Hazardous Combustion Products:</u>	This product will decompose under extreme temperatures forming oxides of carbon.

Unusual fire and explosion hazards:

May be combustible at high temperatures. When heated to decomposition it emits acrid smoke and irritating fumes. When heated to decomposition it emits acrid smoke and irritating fumes.

Protective equipment:

Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.

## **6. Accidental Release Measures**

Steps to be taken in case material is spilled:

Wear appropriate protective clothing, gloves and equipment. Contain spill with inert absorbent or earth. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Spills in excess of the RQ must be reported to the local emergency response organizations. Major spills should also be reported to the National Response Center.

Environmental Disposal Information:

Prevent run-off into sewers or natural waterways. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802).

Waste Disposal:

All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

## **7. Handling and Storage:**

Empty Containers:

Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations.

Precautions to be taken in handling:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage:

Store in sealed containers in dry, ambient temperature conditions. Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

## **8. Exposure Controls / Personal Protection**

Respiratory Protection:

Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging.

<u>Ventilation:</u>	Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.
<u>Engineering Controls:</u>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<u>Hand Protective:</u>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<u>Eye Protection:</u>	Safety glasses with side shields.
<u>Skin and Body Protection:</u>	Impervious clothing, boots and apron.
<u>Other Precautions:</u>	Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible.
<u>Facilities:</u>	There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

## 9. Physical and Chemical Properties

<u>Physical Form:</u>	Oily liquid
<u>Appearance &amp; Odor:</u>	Clear/ Slight
<u>Specific Gravity:</u>	1.10-1.13 at 25°C
<u>Solubility in Water:</u>	<0.1%
<u>Flash Point, TAG CC F:</u>	CLOSED CUP: 113°C (235.4°F). OPEN CUP: 198.89°C (390°F).
<u>Evaporation Rate (Water ~ 1):</u>	<1 (butyl acetate=1)
<u>Vapor Pressure (mm Hg):</u>	0 kPa (@ 20°C)
<u>Vapor Density (Air ~ 1):</u>	10.8 (Air = 1)
<u>Melting point:</u>	-35°C (-31°F)
<u>Boiling Point (°F) Initial:</u>	370°C (698°F)
<u>Auto ignition Temperature, °C:</u>	232°C (449.6°F)

## 10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Material will react with strong oxidizers and bases.
<u>Conditions to Avoid:</u>	This product decomposes under high temperature and hydrolyses in humid conditions.
<u>Hazardous Polymerization:</u>	Will not polymerize or exotherm.

## 11. Toxicological Information

<u>Toxicity to animals:</u>	Acute oral toxicity (LD50): 2330 mg/kg [Rat]. Acute dermal toxicity (LD50): 6700 mg/kg [Rat].
<u>Effects on humans:</u>	May cause damage to the following organs: blood, the nervous system, liver, central nervous system (CNS). Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation. Presumed human reproductive toxicant.
<u>Chronic effects on humans:</u>	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic) based on animal test data. May cause cancer based on animal test data.

## 12. Ecological Information

Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

<u>Ecotoxicity:</u>	Ecotoxicity in water (LC50): 1.7 mg/l 96 hours [Fish (Blue gill)].
<u>Products of biodegradation:</u>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

## 13. Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Contact a licensed professional waste disposal service to dispose of this material.

## 14. Transport Information

<u>Air - ICAO (international Civil Aviation Organization):</u>	Not restricted. Label: Product trade name with chemical description.
<u>Sea - IMDG (International Maritime Dangerous Goods):</u>	Not regulated in non-bulk packaging.

<u>DOT:</u>	Environmentally Hazardous substance, Liquid N.O.S. (butyl benzyl phthalate) III, 9, UN3082. Special Provision Marine Pollutant.
<u>Canada transport hazard good:</u>	Not restricted.
<u>European transportation:</u>	ADR/RID HAZ. CLASS: Not regulated.

### 15. Regulatory Information

All components of this material are on the Canadian DSL.

All components of this material are on the TSCA Inventory.

<u>Sara title III:</u>	311/312 Categories: Not listed 313 Reportable ingredients: None
<u>OSHA:</u>	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
<u>EINECS:</u>	This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 201-622-7).
<u>Canada:</u>	Listed on Canadian Domestic Substance List (DSL).
<u>China:</u>	Listed on National Inventory.
<u>Japan:</u>	Listed on National Inventory (ENCS).
<u>Korea:</u>	Listed on National Inventory (KECI).
<u>Philippines:</u>	Listed on National Inventory (PICCS).
<u>Australia:</u>	Listed on AICS.
<u>California Proposition 65:</u>	This product contains substances known to the State of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986.

### 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 user's 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.