SAFETY DATA SHEET

Version: v1
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: Benzyl Butyl Phthalate
Product Number	: B109815
Brand	: aladdin
CAS-No.	: 85-68-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	: Laboratory chemicals,Manufacture of substances.

1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity (oral): Category 5

Reproductive toxicity: Category 1B

Acute (short-term) aquatic hazard: Category 1

Long term aquatic hazards: Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H360Df	May damage the unborn child; Suspected of damaging fertility
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P203	Obtain, read and follow all safety instructions before use.
P318	if exposed or concerned, get medical advice.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Phthalic Acid Benzyl Butyl Ester;1,2-Benzenedicarboxylic acid butyl phenylmethyl ester ;Butyl phenylmethyl 1,2-benzenedicarboxy; BBP;Benzyl n-butyl phthalate
Formula : C19H20O4
Molecular weight : 312.36
CAS No. : 85-68-7
EC-NO. : 201-622-7

Component	Classification	Concentration
Benzyl Butyl Phthalate		
	no data available	≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air.If not breathing, give artificial respiration.Consult a physician.

In case of skin contact

Wash off with soap and plenty of water.Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.Avoid breathing vapours, mist or gas.Ensure adequate ventilation.Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching gloves 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.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup 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).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	< -35 °C (< -31 °F)
f) Initial boiling point and boiling range	250 °C/22.5 mmHg
g) Flash point	213 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	19.2 hPa (14.4 mmHg) at 250.0 °C (482.0 °F) 0.3 hPa (0.2 mmHg) at 150.0 °C (302.0 °F)
l) Vapour density	no data available
m) Relative density	1.12
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	log Pow: 4.91 at 20 °C (68 °F)
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Possible violent reactions may occur with it: strong oxidizing agent strong base

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - Male and Female -2330 mg/kg

(OECD Testing Guideline 401)

Inhalation: No data available

LD50 transdermal rabbit ->10000 mg/kg

Note: (RTECS)

Skin corrosion/irritation
Skin in vitro experimental research Result: No skin irritation Remarks: (ECHA)
Serious eye damage/eye irritation
Eyes - Rabbit Result: No eye irritation -24 hours Remarks: (ECHA)
Respiratory or skin sensitisation

Sensitivity Test: Guinea Pig Result: Negative Remarks: (ECHA)

Germ cell mutagenicity

Test type: Ames test Testing System: Salmonella Typhimurium Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guideline 471 Result: Negative Test type: In vitro mammalian cell gene mutation assay Testing System: Mouse Lymphoma Cells Metabolic activation: with or without metabolic activation effect Method: US-EPA Result: Negative Test type: In vitro chromosomal aberration test Testing system: Chinese hamster ovary cells Metabolic activation: with or without metabolic activation effect Method: US-EPA Result: Negative Test type: Sister chromatid exchange test Testing system: Chinese hamster ovary cells Metabolic activation: with or without metabolic activation effect Method: US-EPA Result: Negative Test type: In vitro mammalian cell gene mutation assay Testing System: Mouse Lymphoma Cells Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 476 Result: Negative Test type: Chromosome aberration test Species: Mouse Cell type: Bone marrow Route of infection: Intraperitoneal Method: US-EPA Result: Positive results were obtained in some in vivo experiments. Test type: Sister chromatid exchange test Species: Mouse Cell type: Bone marrow Route of infection: Intraperitoneal Method: US-EPA Result: Positive

Carcinogenicity

no data available

Reproductive toxicity

May cause harm to the fetus. Suspected of causing harm to fertility.

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

Repeated toxicity - rat - male - oral -104 weeks - level with no observed harmful effects -240 mg/kg
Registration of Toxic Effects of Chemical Substances: TH9990000
May cause endocrine disorders.
To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.
This substance needs to be handled with special caution

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish: LC50 (fish): 0.51 mg/l
Endpoint: Mortality rate
Exposure time: 96 hours
Test type: Flow test
Analysis and monitoring: Yes

Remarks: (ECHA)
Toxicity to water fleas and other aquatic invertebrates: LC50 (America mysis bahia (Mysid)):>0.74 mg/l
Exposure time: 48 hours
Test type: Flow test
Analysis and monitoring: Yes
Method: US-EPA
GLP: Yes
Toxicity to algae/aquatic plants: ErC50 (Desmodesmus subspicatus): 1.5 mg/l
Exposure time: 72 hours
Test type: Static test
Analysis and monitoring: Yes
Method: OECD Testing Guidelines 201
GLP: Yes
M-factor (acute aquatic hazard): 1
Toxicity to fish (chronic toxicity): NOEC (Pimephales promelas): 0.064-0.067 mg/l
Exposure time: 126 days
Test type: Flow test
Analysis and monitoring: Yes
Method: US-EPA
GLP: Yes
Toxicity to Daphnia magna and other aquatic invertebrates (chronic toxicity): NOEC (Daphnia magna): 0.28 mg/l
Endpoint: Fertility rate
Exposure time: 21 days
Test type: Flow test
Analysis and monitoring: Yes
Remarks: (ECHA)

12.2 Persistence and degradability

aerobic Bacterial culture medium: activated sludge Concentration or concentration range: 100 mg/l Result: Easy to biodegrade. Biodegradability: 81% Exposure time: 14 days Method: OECD Testing Guideline 301C

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

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

aquatic life with long lasting effects.Avoid release to the environment.

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

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

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3082	Packing group: III	Class: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl butyl phthalate)	Reportable Quantity(RQ):no data available	Poison Inhalation Hazard:no data available
Environmental Hazards: yes		

IMDG

UN number: 3082	Packing group: III	EMS-No:no data available
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl butyl phthalate)		

IATA

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

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

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Disclaimer

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.