



SAFETY DATA SHEET

DIBUTYL PHTHALATE

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: DIBUTYL PHTHALATE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s):

1.) May damage the unborn child. Suspected of damaging fertility.

Precautionary statement(s):

- 1.) Obtain special instructions before use.
- 2.) Do not handle until all safety precautions have been read and understood.
- 3.) Use personal protective equipment as required.
- 4.) IF exposed or concerned: Get medical attention/advice.
- 5.) Store locked up.
- 6.) Dispose of contents/container to an approved wasted disposal plant.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: n-Butyl phthalate, Phthalic acid dibutyl ester, DBP, Benzene-o-dicarboxylic acid di-n-butyl ester, Di-n-butyl phthalate, Dibutyl 1,2-benzenedicarboxylate, Dibutyl o-phthalate.

Ingredients	% (w/w)	CAS NO.
DIBUTYL PHTHALATE	100	84-74-2

4. FIRST AID MEASURES

General advice: No data available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray, fog or foam, dry chemical powder or carbon dioxide.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific hazards arising from Chemicals:

Carbon monoxides and Carbon dioxide. Keep product and empty container away from heat and source of ignition.

Special protective equipment for fire-fighters:

An in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEAS

Precautions: Ensure adequate ventilation. Use personal protective equipment.



Environmental precautions: See Section 12 for additional ecological information.

Methods and Material for Containment and Clean Up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Prevent product from entering drains. Keep in suitable, closed containers for disposal. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Conditions for Safe Storage & Unsuitable Materials:

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 5 mg/m³

Appropriate Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety showers are proximal to the work station location.

Individual Protection Measures

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hand protection: Gloves.

Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye.

Skin and body protections: Wear appropriate protective gloves and clothing to prevent skin exposure.

Hygiene measure: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor : liquid, Colorless to light yellow, Ester odor	Evaporation rate : N/A
Melting Point : (-40) – (-35) °C	Specific gravity : 1.040 – 1.048 g/cm ³
pH : N/A	Solubility in water : 13 mg/l at 25 °C
Boiling point : 340 °C	Viscosity : N/A
Vapour pressure : 0 kPa at 20 °C , <0.01 mmHg at 20°C	Vapour density (air=1) : 9.58 - 9.59
Lower explosive limits : 0.4 - 0.5 %Vol	Upper explosive limits : N/A
Auto-ignition temperature : 402 - 432 °C	Flash point: 157 - 185 °C
Odour threshold: N/A	Flammability (solid, gas): N/A
Decomposition temperature: N/A	Solubility in other solvents: Soluble in diethyl ether, acetone, benzene, alcohol, most organic solvents and oils. Very slightly soluble in cold water.
n-octanol/water partition coefficient (log P_{ow}): 4.9	

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Reactions:	None known, based on information available.
Possibility of Hazardous Reactions:	None under normal processing. Hazardous polymerization does not occur.
Conditions to avoid:	Incompatible products.
Materials to avoid:	Strong oxidizing agents, Bases, Acids, Chlorine, Alkalis, Oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral, rat): 11256 mg/kg LD50 (Dermal, rabbit): >20000 mg/kg LC50 (Inhalation, rat): 25000 mg/m –2h
Sensitization:	Skin: May cause skin irritation, stinging and burning sensation. It can cause dermatitis. It can be absorbed by the skin. Eyes: Splash contact can cause immediate, severe stinging pain, and profuse tearing. Inhalation: It can irritate the nose and throat. It may affect behavior/central nervous system.



It may cause nausea. Ingestion: May cause nausea, vomiting. It may affect behavior/central nervous system, liver and kidney, blood, respiration, metabolism. May also cause conjunctivitis and edema of the eyelids.

Chronic toxicity:

May cause damage to the following organs: kidneys, the nervous system, liver, central nervous system (CNS). May cause adverse reproductive effects and defects (teratogenic). May affect genetic material (mutagenic). Prolonged or repeated ingestion may have symptoms similar to that of acute ingestion. Carcinogenicity: Not listed

Further toxicological information:

No data available

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Biodegradability Remarks: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself.

Bioaccumulative Potential: No data available.

Mobility: No data available.

Affected in any other way: No data available.

13. DISPOSAL CONSIDERATIONS

Material Disposal:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generator must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Container Disposal:

No data available.

14. TRANSPORT INFORMATION

**DOT**

UN-NO: 3082

Class: 9

Packing group: III

Special Provisions for Transport: Marine Pollutant

Identification: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)

IMGD

Not regulated.

IATA

Not regulated.

15. REGULATORY INFORMATION**International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1,2- Benzenedicarboxylic acid dibutyl ester	X	X	-	-	-		X	X	X	X	X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PM N substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

T- Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS Chemicals.

Other International Regulations

Mexico – Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Revision Data 01-Apr-2016

Print Date 01-Apr-2016



Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Federal and State Regulations:

Connecticut hazardous material survey.: Dibutyl phthalate Illinois toxic substances disclosure to employee act: Dibutyl phthalate Illinois chemical safety act: Dibutyl phthalate New York release reporting list: Dibutyl phthalate Rhode Island RTK hazardous substances: Dibutyl phthalate Pennsylvania RTK: Dibutyl phthalate Mainnesota: Dibutyl phthalate Illinois Massachusetts RTK: Dibutyl phthalate Massachusetts spill list: Dibutyl phthalate New Jersey: Dibutyl phthalate New Jersey spill list: Dibutyl phthalate Louisiana spill reporting: Dibutyl phthalate California Director's List of Hazardous Substances: Dibutyl phthalate TSCA 8(b) inventory: Dibutyl phthalate TSCA 8(a) IUR: Dibutyl phthalate TSCA 8(d) H and S data reporting: Dibutyl phthalate:Effective Data: 10/4/82; Sunset Date: 10/4/92 SARA 313 toxic chemical notification and release reporting: Dibutyl phthalate CERCLA: Hazardous substances.: Dibutyl phthalate: 10 lbs (4.536 kg)

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R50 – Very toxic to aquatic organisms.R61- May cause to the unborn child. R62 – Possible risk of impaired fertility. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53- Avoid exposure – obtain special instructions before use. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.



HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: h

Information Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

16. Other Information

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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