

EASTMAN

MATERIAL SAFETY DATA SHEET

Revision Date: 09/27/2001

MSDSUSA/ANSI/EN/150000001048/Version 2.0

0030400818/0000823428

P50482

Dibutyl Phthalate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	"EASTMAN" DBP Plasticizer
Product Identification Number(s)	P0008100
Manufacturer/Supplier	Eastman Chemical Company, Kingsport, Tennessee 37662
MSDS Prepared by	Eastman Product Safety and Stewardship
Chemical Name	1,2-benzenedicarboxylic, dibutyl ester
Synonym(s)	901403
Molecular Formula	C16H22O4
Molecular Weight	278.35
Product Use	plasticizer
OSHA Status	hazardous

RECEIVED

MAR 31 2010

For emergency health, safety & environmental information, call 800-EASTMAN.

For emergency transportation information, call CHEMTREC at 800-424-9300 or call 800-EASTMAN.

2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided.)

Weight %	Component	CAS Registry No.
100%	dibutyl phthalate	84-74-2

3. HAZARDS IDENTIFICATION

HIGH ORAL DOSES OF THIS MATERIAL CAUSE ADVERSE REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS - SEE MSDS FOR DETAILS

HMIS® Hazard Ratings: Health - 1, Flammability -1, Chemical Reactivity - 0

NOTE: HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Skin: Wash with soap and water. If symptomatic, get medical attention.

Ingestion: Seek medical advice.

5. FIRE FIGHTING MEASURES

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Extinguishing Media: water spray, dry chemical, carbon dioxide, foam

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: none

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. (See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.) Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

DIBUTYL PHTHALATE

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 5 mg/m³

DIBUTYL PHTHALATE

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 5 mg/m³

DIBUTYL PHTHALATE

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 5 mg/m³

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Time Weighted Average (TWA): 5 mg/m³

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. NOTE: Some countries might not have established exposure limits.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: mist, organic vapor

Eye Protection: It is a good industrial hygiene practice to minimize eye contact.

Skin Protection: It is a good industrial hygiene practice to minimize skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: liquid
Color: colorless
Odor: odorless
Specific Gravity: 1.048 (20 °C)
Vapor Pressure: 20 °C; 0.0000189 mbar
Vapor Density: 9.6
Freezing Point: -35 °C
Boiling Point: 340 °C
Viscosity: 15 mPa.s (25 °C)
Solubility in Water: 11.2 mg/l
Octanol/Water Partition Coefficient: P: 61,660; log P: 4.79
Flash Point: 191 °C (Cleveland open cup)
Autoignition Temperature: 404 °C (ASTM D2155)
Thermal Decomposition Temperature: (DTA) No exotherm

10. STABILITY AND REACTIVITY

Stability: Stable.
Incompatibility: Material reacts with strong oxidizing agents.
Hazardous Polymerization: will not occur

11. TOXICOLOGICAL INFORMATION

General: High oral doses of this material given to pregnant animals produced some minor abnormalities in their offspring. However, high doses to humans handling this material are not expected since oral consumption is not a likely route of significant exposure. Because this material does not evaporate readily and is not easily absorbed through human skin, it is not expected to produce such effects in humans through inhalation or skin exposure when handled in a manner consistent with the precautionary measures contained in this material safety data sheet.

Toxicity data are not available unless listed below.

Oral LD-50:(rat)	20,000 - 25,000 mg/kg
Dermal LD-50: (guinea pig)	> 2,096 mg/kg> 2 ml/kg (highest dose tested)
Dermal LD-50: (rabbit)	> 20,960 mg/kg> 20 ml/kg (highest dose tested)
Skin Irritation (guinea pig)	slight
Skin Irritation (rabbit)	none
Eye Irritation (human)	slight

12. ECOLOGICAL INFORMATION

Oxygen Demand Data:

BOD-5: 340 mg/g

BOD-5: 430 mg/g

COD: 1,710 mg/g

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ThOD: 2,240 mg/g

Acute Aquatic Effects Data:

96 h LC-50 (fathead minnow): 0.92 mg/l NOEC: 0.32 mg/l

96 h LC-50 (rainbow trout): 1.6 mg/l NOEC: 0.5 mg/l

96 h LC-50 (sheepshead minnow): > 0.6 mg/l NOEC: 0.6 mg/l

96 h LC-50 (bluegill sunfish): 0.48 mg/l NOEC: 0.42 mg/l

48 h EC-50 (daphnid): 3.0 mg/l NOEC: 1.7 mg/l

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

14. TRANSPORT INFORMATION

Marine pollutant components: none unless listed below

dibutyl phthalate

Reportable Quantity: 4.5 kg

DOT (USA): Class 9 Packing group III

ICAO Status: Class 9 Packing group III

IMDG Status: Class 9 Packing group III

15. REGULATORY INFORMATION

WHMIS (Canada) Status: controlled

WHMIS (Canada) Hazard Classification: D/2/A

SARA 311-312 Hazard Classification(s):

delayed (chronic) health hazard

SARA 313: none, unless listed below

dibutyl phthalate

Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

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DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

EINECS (European Inventory of Existing Commercial Chemical Substances): This product is listed on EINECS.

EINECS Number: 201-557-4

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

16. OTHER INFORMATION

For other information, call your Eastman representative or the Eastman operator at 423-229-2000 (USA).

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.