



Bis-(2-Ethyl Hexyl) Phthalate CAS No 117-81-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

> Product name Bis-(2-Ethyl Hexyl) Phthalate

CAS-No. : 117-81-7

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

> Company : Central Drug House (P) Ltd

> > 7/28 Vardaan House Ansari Road Daryagani New Delhi-110002

INDIA

Telephone +91 11 49404040

Email care@cdhfinechemical.com

1.4 **Emergency telephone number**

> Emergency Phone # +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Reproductive toxicity (Category 1B), H360FD

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

Danger

Hazard statement(s)

H360FD

May damage fertility. May damage the unborn child.

Precautionary statement(s)

P201

Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

none

P308 + P313 Supplemental Hazard IF exposed or concerned: Get medical advice/ attention.

Statements

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Endocrine disrupting chemical(s)

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Phthalic acid bis(2-ethylhexyl ester)

'Dioctyl' phthalate

DEHP

Formula : C24H38O4
Molecular weight : 390.56 g/mol
CAS-No. : 117-81-7
EC-No. : 204-211-0
Index-No. : 607-317-00-9

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

bis(2-Ethylhexyl) phthalate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CAS-No. 117-81-7 Repr. 1B; H360FD <= 100 %

EC-No. 204-211-0 Index-No. 607-317-00-9

Registration number 01-2119484611-38-XXXX

For the full text of the H-Statements mentioned in this Section, see Section 16.

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.

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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.

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.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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 exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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 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.

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 (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

b) Odour No data available c) Odour Threshold No data available No data available Ha (b

e) Melting point/freezing

point

-50.0 °C

Initial boiling point and boiling range

386 °C - lit.

g) Flash point 207.0 °C - closed cup h) Evaporation rate No data available

Flammability (solid, gas) No data available i)

Upper/lower flammability or explosive limits Lower explosion limit: 0.3 %(V)

1.2 mmHg at 93.0 °C k) Vapour pressure Vapour density No data available

0.980-0.985 g/cm3 at 20 °C m) Relative density

n) Water solubility insoluble

o) Partition coefficient: n-

octanol/water

No data available

p) Auto-ignition 390.0 °C temperature

q) Decomposition temperature

No data available

No data available Viscosity r) **Explosive properties** No data available No data available Oxidizing properties

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

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides In

the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 30,000 mg/kg(bis(2-Ethylhexyl) phthalate)

LD50 Dermal - Rabbit - 25,000 mg/kg(bis(2-Ethylhexyl) phthalate)

Skin corrosion/irritation

Skin - Rabbit(bis(2-Ethylhexyl) phthalate)

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit(bis(2-Ethylhexyl) phthalate)

Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation

Maximisation Test - Guinea pig(bis(2-Ethylhexyl) phthalate)

Result: Does not cause skin sensitisation.

(OECD Test Guideline 406)

Germ cell mutagenicity

No data available(bis(2-Ethylhexyl) phthalate)

Carcinogenicity

This product is or contains a component that has been reported to be possi classification.(bis(2-Ethylhexyl) phthalate)

(bis(2-Ethylhexyl) phthalate)

(bis(2-Ethylhexyl) phthalate)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

Reproductive toxicity

May cause congenital malformation in the fetus.(bis(2-Ethylhexyl) phthalate)

Presumed human reproductive toxicant(bis(2-Ethylhexyl) phthalate)

May cause reproductive disorders.(bis(2-Ethylhexyl) phthalate)

Specific target organ toxicity - single exposure

No data available(bis(2-Ethylhexyl) phthalate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(bis(2-Ethylhexyl) phthalate)

Additional Information

RTECS: TI0350000

Effects due to ingestion may include:, Gastrointestinal disturbance(bis(2-Ethylhexyl) phthalate)

Kidney - (bis(2-Ethylhexyl) phthalate)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h(bis(2-

Ethylhexyl) phthalate)

LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.32 mg/l - 96 h(bis(2-

Ethylhexyl) phthalate)

LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h(bis(2-

Ethylhexyl) phthalate)

LC50 - Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h(bis(2-Ethylhexyl)

phthalate)

NOEC - other fish - > 0.3 mg/l - 96 h(bis(2-Ethylhexyl) phthalate)

Toxicity to daphnia and

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h(bis(2-

Ethylhexyl) phthalate)

12.2 Persistence and degradability

Biodegradability Result: - Readily biodegradable

(OECD Test Guideline 301)

12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 100 d

- 0.014 mg/l(bis(2-Ethylhexyl) phthalate)
 Bioconcentration factor (BCF): 113

Remarks: Does not bioaccumulate.

12.4 Mobility in soil

No data available(bis(2-Ethylhexyl) phthalate)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H360FD May damage fertility. May damage the unborn child.

Further information

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.