

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 27 Dec 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Bis(2-ethylhexyl) phthalate

1.1. Catalog No.:

676542

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

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04451 Cunnersdorf Deutschland

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Reproductive toxicity (Category 1B), H360FD

2.2. Label elements

2.2.1. Pictogram



2.2.2.

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

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)

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

Registration number : 01-2119484611-38-XXXX

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. EC-No.

Index-No. Registration number 117-81-7 204-211-0 607-317-00-9 01-2119484611-38-XXXX

Repr. 1B; H360FD <= 100 %

3.1.1. Formula

C24H38O4

3.1.2. Molecular Weight (g/mol)

390.56



3.1.3. CAS-No.

117-81-7

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.

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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING 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

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.

HPC Standards GmbH Seite 4/7

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace 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 équipment

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 \$\pi\$4039;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 a full-face 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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: liquid

Odour No data available

Odour Threshold No data available

pH No data available

e) Melting point/freezing

point -50,0 °C

f) Initial boiling point and

boiling range 386 °C - lit.

g) Flash point 207,0 °C - closed cup h) Evaporation rate No. 1-1

Evaporation rate No data available Flammability (solid, gas) No data available

Upper/lower

flammability or

Lower explosion limit: 0,3 %(V) explosive limits

k) Vapour pressure 1,6 hPa at 93,0 °C



I) Vapour density No data available m) Relative density 0,985 g/cm3 at 20 °C n) Water solubility insoluble o) Partition coefficient: noctanol/ No data available p) Auto-ignition temperature 390,0 °C g) Decomposition témperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information

10. STABILITY AND REACTIVITY

No data available

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 In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity
LD50 Oral - Rat - 30.000 mg/kg
LD50 Dermal - Rabbit - 25.000 mg/kg
Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation - 24 h Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation - 24 h Respiratory or skin sensitisation Maximisation Test (GPMT) - Guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity No data available Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

Reproductive toxicity

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant May cause reproductive disorders. 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 RTECS: TI0350000
Effects due to ingestion may include:, Gastrointestinal disturbance Kidney -

12. ECOLOGICAL INFORMATION

12.1 Loxicity
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 0,67 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - > 0,32 mg/l - 96 h LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0,17 mg/l - 96 h LC50 - Lepomis macrochirus (Bluegill) - > 0,20 mg/l - 96 h NOEC - other fish - > 0,3 mg/l - 96 h
Toxicity to daphnia and other acutatic

other aquatic

invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - > 0,16 mg/l - 48 h

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

Bioconcentration factor (BCF): 113

Remarks: Does not bioaccumulate.

12.4 Mobility in soil

No data available

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

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

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

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010. 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

Authorisations and/or restrictions on use

bis(2-Ethylhexyl) phthalate CAS-No.: 117-81-7 REACH - List of substances subject to authorisation (Annex XIV)

Toxic for reproduction (category 1B)

Sunset Date: 21.02.2015

Exempted (Categories of) Uses: Uses in the immediate packaging of medicinal products covered under Regulation (EC) No 726/2004, Directive 2001/82/EC, and/or Directive 2001/83/EC. bis(2-Ethylhexyl) phthalate CAS-No.: 117-81-7

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Toxic for reproduction (article 57c)

ED/67/2008

bis(2-Ethylhexyl) phthalate CAS-No.: 117-81-7 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). Equivalent level of concern having probable serious effects to the environment (article 57 f)

bis(2-Ethylhexyl) phthalate CAS-No.: 117-81-7

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, preparations and articles (Annex XVII)

Toxic to reproduction: category 1B

Restricted to professional users.
See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction bis(2-Ethylhexyl) phthalate CAS-No.:

117-81-7

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, preparations and articles (Annex XVII)
Shall not be used in toys

See Annex XVII to the disconstruction (EC) no 1907/2006 for Conditions of restriction 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER 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. For lab use only!