

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

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

#### 1.1. Product name:

Dibutyl phthalate

# 1.1. Catalog No.:

678980

## 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

## 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

## 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), H360Df
Acute aquatic toxicity (Category 1), H400 Classification according to EU Directives 67/548/EEC or 1999/45/EC
R61
R62 N Dangerous for the environment R50

# 2.2. Label elements

# 2.2.1. Pictogram







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2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Danger Hazard statement(s) H360Df May damage the unborn child. Suspected of damaging fertility. H400 Very toxic to aquatic life. Precautionary statement(s) P201 Obtain special instructions before use. P273 Avoid release to the environment. P308 + P313 IF exposed or concerned: Get medical advice/ attention. Supplemental Hazard Statements none Restricted to professional users. 2.3 Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms : n-Butyl phthalate Phthalic acid dibutyl ester

DBP

Formula : C16H22O4 Molecular Weight : 278,34 g/mol

CAS-No.: 84-74-2 EC-No.: 201-557-4 Index-No.: 607-318-00-4 Registration number: 01-2119493042-44-XXXX

Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
Dibutyl 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 84-74-2 201-557-4 607-318-00-4 007-2119493042-44-XXXX Repr. 1B; Aquatic Acute 1; H360Df, H400 <= 100 %

Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration
Dibutyl 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. Index-No. Registration number 84-74-2 201-557-4 607-318-00-4 01-2119493042-44-XXXX T, N, Repr.Cat.2, Repr.Cat.3, R61 - R50 - R62 <= 100 %



C16H22O4

## 3.1.2. Molecular Weight (g/mol)

278.34

## 3.1.3. CAS-No.

84-74-2

# 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

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

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

## 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 no data available 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting 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. 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

#### 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. 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. 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 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

| The type of protective equipment must be selected according to the

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. Discharge into the environment must be avoided.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Colour: colourless

b) Odour no data available

c) Odour Threshold no data available

d) pH no data available e) Melting point/freezing

point
Melting point/range: -35 °C - lit.
f) Initial boiling point and

boiling range
340 °C - lit. g) Flash point 171,0 °C - closed cup
h) Evapouration rate no data available
i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive limits

explosive limits
Lower explosion limit: 0,47 %(V)
k) Vapour pressure 1,3 hPa at 147,0 °C
l) Vapour density no data available
m) Relative density 1,043 g/cm3 at 25 °C
n) Water solubility 0,0114 g/l at 25 °C - OECD Test Guideline 105 - slightly soluble
o) Partition coefficient: noctanol/

water

no data available

p) Auto-ignition temperature 402,0 °C

q) Decomposition temperature

no data available

r) Viscosity 18,8 mm2/s at 20 °C -s) Explosive properties no data available t) Oxidizing properties no data available 9.2 Other safety information

no data available

# 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, Nitrates, Bases, acids, Chlorine
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 - 8.000 mg/kg LC50 Inhalation - rat - 4.250 mg/m3



LD50 Dermal - rabbit - > 20.860 mg/kg Skin corrosion/irritation

Skin - rabbit

Result: No skin Irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - rabbit

Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation Maximisation Test - guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity no data available Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity

Presumed human reproductive toxicant
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
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: TI0875000

Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Central nervous system -

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0,85 mg/l - 96,0 h NOEC - Pimephales promelas (fathead minnow) - 0,32 mg/l - 96,0 h Toxicity to daphnia and

other aquatic

other aquatic invertebrates
LC50 - Daphnia magna (Water flea) - 3,7 mg/l - 48 h
12.2 Persistence and degradability
Biodegradability Result: 81 % - Readily biodegradable.
(C.4-C of the COUNCIL REGULATION (EC) No 440/2008)
12.3 Bioaccumulative potential
Bioaccumulation Pimephales promelas (fathead minnow) - 11 d

- 0,0348 mg/l
Bioconcentration factor (BCF): 2.165
Remarks: Does not bioaccumulate.
12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects

Very toxic to aquatic life.

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

14.1 UN number
ADR/RID: 3082 IMDG: 3082 IATA: 3082
14.2 UN proper shipping name
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyl phthalate)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyl phthalate)
IATA: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl phthalate)
14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9
14.4 Packaging group

ADR/RID: 9 IMDG: 9 IATA: 9
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: yes IMDG Marine pollutant: yes IATA: yes
14.6 Special precautions for user

no data available

## 15. REGULATORY INFORMATION

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Authorisations and/or restrictions on use Dibutyl phthalate CAS-No.: 84-74-2 Candidate List of Substances of Very High Concern for Authorisation Toxic Foreground (article 57c)

Toxic for reproduction (article 576) ED/67/2008
Dibutyl phthalate CAS-No.: 84-74-2
EU. REACH - Annex XIV: List of substances subject to authorisation
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.
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!