

# DIBUTYL SEBACATE

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: Dibutyl Sebacate  
 CAS Number: 109-43-3  
 EC Number: 203-672-5

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

Product use: Laboratory chemicals, Industrial & for professional use only

### 1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd  
 20 Clough Road, Severalls Industrial Park  
 Colchester, Essex, CO4 9QS  
 United Kingdom

Telephone: +44 (0) 333 242 0100  
 Email: [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3 Other Hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Dibutyl sebacate (109-43-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# DIBUTYL SEBACATE

## Section 3: Composition/information on ingredients

### 3.1 Substances

**Chemical name** Dibutyl Sebacate  
**CAS-No** 109-43-3  
**EC-No.** 203-672-5

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dibutyl Sebacate (Constituent)	CAS-No.: 109-43-3 EC-No.: 203-672-5 REACH-no: 01-2119970603-36	Not classified

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Butanol (Impurity)	CAS-No.: 71-36-3 EC-No.: 200-751-6	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### First-aid measures after inhalation

Take victim to fresh air, in a quiet place and if necessary take medical advice.

#### First-aid measures after skin contact

Rinse immediately with plenty of water (for at least 15 minutes). Soap may be used.

#### First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes.

#### First-aid measures after ingestion

Give nothing to drink. And. Do not induce vomiting without medical advice. Get immediate medical advice/attention.

### 4.2 Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

## DIBUTYL SEBACATE

### Section 5: Fire-fighting measures

#### 5.1 Fire Fighting Media and Instructions:

##### Suitable extinguishing media

carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam.

##### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture

##### Fire hazard

None known.

##### Hazardous decomposition products in case of fire

carbon oxides.

#### 5.3 Advice for firefighters

##### Protection during firefighting

Use normal individual fire protective equipment.

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### General measures

Avoid contact with skin and eyes.

##### Emergency procedures

Evacuate unnecessary personnel.

##### Protective equipment

Concerning personal protective equipment to use, see section 8.

#### 6.2 Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

##### Methods for cleaning up

Recover large spills by pumping (use an explosion proof or hand pump). If recovery is impossible or if the pools are too small, absorb with: Sand/earth. or. inert absorbent material. Shovel into suitable and closed container for disposal.

#### 6.4 Reference to other sections

Wear personal protective clothing (see chapter 8).

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Precautions for safe handling

# DIBUTYL SEBACATE

Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Take off immediately all contaminated clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Store in original container. Keep container tightly closed and in a well-ventilated place. Store at ambient temperature.

### Storage temperature

5 - 30°C

### Heat and ignition sources

Keep away from sources of ignition.

## 7.3. Specific end use(s)

No additional information available

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection

Safety glasses

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### 8.2.2.2. Skin protection

#### Skin and body protection

Wear suitable protective clothing. or. Lab coat

#### Hand protection

Wear suitable gloves resistant to chemical penetration (Reg (UE) 2016/425)

### 8.2.2.3. Respiratory protection

#### Respiratory protection

No special protection required.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless.
Appearance	Oily consistency.
Odour	slight.
Melting point	< -15 °C
Boiling point	344,5 °C (Lit.)
Explosive properties	Product is not explosive. (Lit.)
Oxidising properties	Non oxidizing material according to EC criteria. (Lit.)
Auto-ignition temperature	365 °C (Lit.)
Viscosity, kinematic	4 - 7 mm <sup>2</sup> /s (25°C)
Solubility	Insoluble.
Partition coefficient n-octanol/water (Log Pow)	6,3 (calculated value)
Vapour pressure	≈ 0,6 mPa (calculated value) (Lit.)
Density	0,934 - 0,94 g/cm <sup>3</sup> (20°C)
Particle characteristics	Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

##### Other properties

Not highly flammable in contact with water, not pyrophoric (Lit.)

## Section 10: Stability and Reactivity

### 10.1. Reactivity

No additional information available

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### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## Section 11: Toxicological Information

### 11.1 Toxicological effects:

#### Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Dibutyl sebacate (109-43-3)</b>	
LD50 oral rat	> 4700 mg/kg bodyweight (Lit.)
LD50 dermal rabbit	> 7940 mg/kg (Results obtained on a similar product) (Lit.)
LC50 Inhalation - Rat	> 3,2 mg/l (Results obtained on a similar product) (Lit.)
<b>Dibutyl sebacate (109-43-3)</b>	
LD50 oral rat	> 4700 mg/kg bodyweight (Lit.)
LD50 dermal rabbit	> 7940 mg/kg (Results obtained on a similar product) (Lit.)
LC50 Inhalation - Rat	> 3,2 mg/l (Results obtained on a similar product) (Lit.)
<b>Butanol (71-36-3)</b>	
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	Not irritating. (Lit.)
Serious eye damage/irritation	Not irritating to eyes. (Lit.)
Respiratory or skin sensitisation	Not sensitizing. (Results obtained on a similar product). (Lit.)
Germ cell mutagenicity	Not mutagenic (AMES Test). (Lit.)
Carcinogenicity	No data available
Reproductive toxicity	NOAEL reproduction $\geq$ 1 000 mg/kg bw (rat) (results obtained on a similar product) (Lit.). NOAEL development $\geq$ 1 000 mg/kg bw (rat) (results obtained on a similar product) (Lit.)
STOT- single exposure	Not classified

<b>Butanol (71-36-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	Not classified
<b>Dibutyl sebacate (109-43-3)</b>	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day (Results obtained on a similar product) (Lit.)
<b>Dibutyl sebacate (109-43-3)</b>	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day (Results obtained on a similar product) (Lit.)
Aspiration hazard	Not classified

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<b>Dibutyl sebacate (109-43-3)</b>	
Viscosity, kinematic	4 - 7 mm <sup>2</sup> /s (25°C)
<b>Dibutyl sebacate (109-43-3)</b>	
Viscosity, kinematic	8,4 mm <sup>2</sup> /s (25°C)

## 11.2 information on other hazards:

No additional information available

## Section 12: Ecological Information

### 12.1 Toxicity

<b>Dibutyl sebacate (109-43-3)</b>	
LC50 - Fish [1]	> 10000 mg/l (96h) (Danio rerio) (Lit.)
EC50 - Crustacea [1]	1000 mg/l (48h) (Daphnia Magna) (Results obtained on a similar product) (Lit.)
ErC50 algae	> 1000 mg/l (72h) (Desmodesmus subspicatus) (Results obtained on a similar product) (Lit.)
NOEC (additional information)	Earthworm (14d): NOEC > 1 000 mg/kg soil dw (Eisenia fetida) (Results obtained on a similar product) (Lit.)
<b>Dibutyl sebacate (109-43-3)</b>	
LC50 - Fish [1]	> 10000 mg/l (96h) (Danio rerio) (Lit.)
EC50 - Crustacea [1]	1000 mg/l (48h) (Daphnia Magna) (Results obtained on a similar product) (Lit.)
ErC50 algae	> 1000 mg/l (72h) (Desmodesmus subspicatus) (Results obtained on a similar product) (Lit.)
NOEC (additional information)	Earthworm (14d) : NOEC > 1 000 mg/kg soil dw (Eisenia fetida) (Results obtained on a similar product) (Lit.)

### 12.2 Persistence and degradability

<b>Dibutyl sebacate (109-43-3)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	97 % after 28 days(Results obtained on a similar product)
<b>Dibutyl sebacate (109-43-3)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	97 % after 28 days(Results obtained on a similar product)

### 12.3. Bioaccumulative potential

<b>Dibutyl sebacate (109-43-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	6,3 (calculated value)
<b>Dibutyl sebacate (109-43-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	6,3 (calculated value)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

<b>Dibutyl sebacate (109-43-3)</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

# DIBUTYL SEBACATE

Component	
Dibutyl sebacate (109-43-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

No additional information available

## Section 14: Transport Information

### In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available.				

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

# DIBUTYL SEBACATE

**Rail transport**

No data available

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

## Section 15: Regulatory Information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations****REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

**REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

**POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

**Ozone Regulation (1005/2009)**

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

As the criteria for classification listed in article 14 of REACH and the criteria for PBT/vPvB are not met, no exposure scenarios are required.

## Section 16: Other Information

Full text of H- and EUH-statements:

## DIBUTYL SEBACATE

<b>Acute Tox. 4 (Oral)</b>	Acute toxicity (oral), Category 4
<b>Eye Dam. 1</b>	Serious eye damage/eye irritation, Category 1
<b>Flam. Liq. 3</b>	Flammable liquids, Category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H302</b>	Harmful if swallowed.
<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>Skin Irrit. 2</b>	Skin corrosion/irritation, Category 2
<b>STOT SE 3</b>	Specific target organ toxicity - Single exposure, Category 3, Narcosis