

# Dimethyl phthalate

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 1/26/2012

Revision date: 2/20/2017

Supersedes: 4/25/2016

Version: 0.6

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

#### 1.1. Product identifier

Product form : Substance  
Chemical name : Dimethyl ester of phthalic anhydride  
EC/EINECS/ELINS : 205-011-6  
CAS : 131-11-3  
REACH registration No : 01-2119437229-36  
Formula : C10H10O4  
Synonyms : Dimethylbenzene-1,2-dicarboxylate  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

Ostend Basic Chemicals  
Stationstraat 123  
8400 Oostende  
T +32 59 553 800 - F +32 59 553 801  
[info@obc-europe.be](mailto:info@obc-europe.be) - [www.obc-europe.be](http://www.obc-europe.be)

#### 1.4. Emergency telephone number

Emergency number : + 32 59 553 800

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

No labelling required

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
Dimethyl ester of phthalic anhydride	(CAS) 131-11-3 (EC/EINECS/ELINS) 205-011-6 (REACH-no) 01-2119437229-36	100	Not classified

Full text of H-statements: see section 16

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### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. Get medical advice/attention.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do not induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation and/or dermatitis.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Carbon dioxide (CO <sub>2</sub> ). Alcohol-resistant foam.
Unsuitable extinguishing media	: Strong water jet.

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

Fire hazard	: Combustible.
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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray/stream to protect personnel and to cool endangered containers.
Other information	: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment	: See protective measures under point 7 and 8.
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#### 6.1.2. For emergency responders

Protective equipment	: See protective measures under point 7 and 8.
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### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

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

For containment	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal.
Methods for cleaning up	: After cleaning, flush away traces with water.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin, eye and clothing. Provide adequate ventilation.
Hygiene measures	: Wash hands before breaks and at the end of work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Protect from moisture.
Storage temperature	: > 0 °C
Storage area	: Keep container tightly closed and dry. Protect against frost.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection	: Wear protective gloves. (EN 374)
Eye protection	: Tightly sealed safety glasses. (EN 166)
Skin and body protection	: Avoid contact with skin, eye and clothing. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Wear face protection. Take off contaminated clothing and wash before reuse
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. In case of fine dispersion/spraying/misting: Filter respirator (full mask or mouth-piece) with filter: A2P2

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Molecular mass	: 194.18 g/mol
Colour	: colourless.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -1 °C
Freezing point	: No data available
Boiling point	: 284 °C
Flash point	: 154 °C
Auto-ignition temperature	: 470 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.1 hPa @ 25 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.19 kg/l
Solubility	: Water: insoluble
Log Pow	: 1.54 @ 25°C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 16-19 mPa.s (20°C)
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: 0.9 vol % LEL (180°C)

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

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### 10.5. Incompatible materials

Oxidizing agents. Acids.

### 10.6. Hazardous decomposition products

Carbon oxides (COx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Dimethyl ester of phthalic anhydride (131-11-3)

LD50 oral rat	8200 mg/kg
LD50 dermal rabbit	> 12000 mg/kg

Skin corrosion/irritation : Not classified  
pH: No data available

Serious eye damage/irritation : Not classified  
pH: No data available

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Dimethyl ester of phthalic anhydride (131-11-3)

LC50 fish 1	39 mg/l (96h, Pimephales pomelas)
LC50 other aquatic organisms 1	> 52 mg/l (48h, Daphnia)

### 12.2. Persistence and degradability

#### Dimethyl ester of phthalic anhydride (131-11-3)

Persistence and degradability : Readily biodegradable, according to appropriate OECD test.

### 12.3. Bioaccumulative potential

#### Dimethyl ester of phthalic anhydride (131-11-3)

BCF fish 1	57 (Lepomis macrochirus)
Log Pow	1.54 @ 25°C

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Remove according to the regulations.  
Sewage disposal recommendations : Ensure all waste water is collected and treated via a waste water treatment plant.  
Waste disposal recommendations : Collect in closed containers for disposal.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable

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UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: Not applicable
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#### IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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#### IATA

Transport hazard class(es) (IATA)	: Not applicable
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#### ADN

Transport hazard class(es) (ADN)	: Not applicable
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#### RID

Transport hazard class(es) (RID)	: Not applicable
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### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: 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

#### - Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

No REACH Annex XVII restrictions

Dimethyl phthalate is not on the REACH Candidate List

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Dimethyl phthalate is not on the REACH Annex XIV List

### 15.1.2. National regulations

#### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 205)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

SDS EU (REACH Annex II)

#### Disclaimer:

The purpose of this safety data sheet is to provide information about the safety, health and environmental aspects of the product concerned. The information in this safety data sheet is based on current expertise. Ostend Basic Chemicals provides this information in good faith and to the best of its ability.

This data sheet contains no guarantees as to the suitability of the product for a particular purpose or about any particular characteristics of the product. The purchaser/consumer is personally responsible for his/her use of the product and for taking precautions appropriate to its use.

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