



# Sebacic Acid / Decanedioic / DC10

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006

According to Regulation (EU) No. 2020/878

Version:2.1

Version date:2025.01.22

Language:EN

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

#### 1.1. Product identifier

Trade name/designation : Sebacic Acid / Decanedioic / DC10.  
CAS No. / EC No. : 111-20-6 / 203-845-5.  
REACH Registration No. : 01-2119519212-52-0037

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

Relevant identified uses : No data available.  
Uses advised against : No data available.

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

Supplier 1 : Name: Cathay (JinXiang) Biomaterial Co., Ltd  
Address: Jining Chemical Industry Department, Huji Town, Jinxiang County, Jining, Shandong  
Country: P.R.China  
Telephone: +86-21-50801916  
E-mail: eu.service@cathaybiotech.com  
Fax: +86-21-50801386

Supplier 2 : Name: Cathay (Taiyuan) Biotechnology Co., Ltd  
Address: Synthetic biology industrial park, Yangqu, Taiyuan City, Shanxi Province  
Country: P.R.China  
Telephone: +86-21-50801916  
E-mail: eu.service@cathaybiotech.com  
Fax: +86-21-50801386

Only representative(EU-REACH) : Name: EcoMundo SAS  
Address: 215 rue Jean-Jacques Rousseau 92136 Issy-Les-Moulineaux  
Country: France  
Telephone: +33 (0)183642052  
E-mail: or@ecomundo.eu

#### 1.4. Emergency Telephone Number

+86 21 50801916 [Not available outside office hours.]

### SECTION 2: Hazards identification

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

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

Not classified as dangerous.

#### 2.2. Label elements

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

Hazard pictograms -  
Signal word -  
Product identifiers -  
Hazard Statements -  
Supplemental Hazard information (EU) -  
Precautionary Statements - General -  
Precautionary Statements - Prevention -

Precautionary Statements - Response -  
 Precautionary Statements - Storage -  
 Precautionary Statements - Disposal -

### 2.3. Other hazards

Not available

## SECTION 3: Composition/information on ingredients

Substance/Mixture: Substance

### 3.1. Substances

This substance does not contain any substances presenting a health or environmental hazard within the meaning of the Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

Substance	C (%)	Classification	Specific concentration limits	Note
sebacic acid	C ≥ 99.0%	Not classified as hazardous	-	-

Do not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

### 3.2. Remark

Not available

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information	:	When in doubt or if symptoms are observed, get medical advice.
Following inhalation	:	No special measures are necessary. Provide fresh air.
Following skin contact	:	Wash with soap and water.
Following eye contact	:	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
Following ingestion	:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	:	No special measures are necessary.

### 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

Notes for the doctor	:	Treat symptomatically. Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	:	Dry chemical foam. Water spray. Extinguishing powder. Carbon dioxide.
Unsuitable extinguishing media	:	Not available.

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

Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: Carbon monoxide and carbon dioxide. Finely dispersed particles form explosive mixtures in air.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Prevent fire-fighting water from entering surface water or groundwater.

### 5.4. Additional information

Do not inhale vapors and fumes. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers. 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

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### 6.2. Environmental precautions

Ensure that waste is collected and contained. Contain leaks or spills within cabinets with removable trays.

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

Treat the recovered material as prescribed in the section on waste disposal. Collect in closed and suitable containers for disposal. Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents). Wipe up with absorbent material (eg. cloth, fleece).

### 6.4. Reference to other sections

Safe handling: see section 7. Disposal: see section 13. Personal protection equipment: see section 8.

### 6.5. Additional information

Not available

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

#### PROTECTIVE MEASURES

No special measures are necessary.

#### Advices on general occupational hygiene

Wash hands before breaks and after work.

Remove contaminated, saturated clothing.

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

Keep container tightly closed in a dry, cool, and well-ventilated place. Keep container in upright position in order to prevent leakage.

### 7.3. Specific end uses

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

Does not contain substances above concentration limits fixing an occupational exposure limit.

Not available

### 8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Personal protection equipment

Not available

Eye/face protection	:	Suitable eye protection: Safety glasses.
Skin protection	:	Hand protection: Glove material (eg. nitrile rubber). Body protection: No special measures are necessary.
Respiratory protection	:	Suitable respiratory protection apparatus: Required when dusts are generated.

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 8.3. Additional information

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical Properties

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

Physical state:	Solid
Colour:	White
Odour:	Odorless

Appearance:	Powder/Flakes/Granular
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	131-135 °C
Initial boiling point and boiling range:	294,5 °C (100mmHg)(lit.)
Flash point:	Not available
Evaporation rate:	Not available
Flammability:	No pyrophoric properties
Upper/lower flammability or explosive limits:	Not determined, non explosive
Vapour pressure:	Negligible, 0.00001 hPa at 20 °C
Vapour density:	Not available
Relative density:	1.21*10 <sup>3</sup> kg/m <sup>3</sup> at 20 °C
Solubility(ies):	Not available
Partition coefficient: n-octanol/water (Log KOC):	logPow= 1.5 at 23 °C at pH 3
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	No explosive properties
Oxidising properties:	No oxidising properties

## 9.2. Other safety information

Not available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Dust explosion possible if in powder or granular form, mixed with air.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use..

### 10.3. Possibility of hazardous reactions

Violent reactions possible with: strong oxidizing agents, bases, strong acids.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents, reducing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

### 10.7. Additional information

Not available

## SECTION 11: Toxicological information

### 11.1. Acute oral toxicity

#### Data for mixture

Not available

#### Substances

#### sebacic acid (CAS: 111-20-6)

Species	: Rat
Sex	: male/female
Guideline	: OECD Guideline 401 (Acute Oral Toxicity)

Subendpoint	Operator	Value	Unit
LD50	>	5000	mg/kg bw

Conclusion : Not available

#### 11.2. Acute skin toxicity

##### Data for mixture

Not available

##### Substances

##### sebacic acid (CAS: 111-20-6)

Species : Rat  
Sex : male/female  
Guideline : OECD Guideline 402 (Acute Dermal Toxicity)  
Exposure duration/value : 24  
Exposure duration/unit : h

Subendpoint	Operator	Value	Unit
LD50	>	2000	mg/kg bw

Conclusion : Not available

#### 11.3. Acute inhalation toxicity

##### Data for mixture

Not available

##### Substances

Not available

#### 11.4. Skin corrosion

##### Data for mixture

Not available

##### Substances

Not available

#### 11.5. Eye damage

##### Data for mixture

Not available

##### Substances

Not available

#### 11.6. Skin sensitisation

##### Data for mixture

Not available

##### Substances

Not available

#### 11.7. STOT RE

##### Data for mixture

Not available

##### Substances

Not available

#### 11.8. STOT SE

##### Data for mixture

Not available

##### Substances

Not available

#### 11.9. STOT RE

##### Data for mixture

Not available

##### Substances

##### sebacic acid (CAS: 111-20-6)

Species	: Rat
Sex	: male/female
Route of administration	: oral: feed
Target organ of toxicity	: Not available
Exposure duration	: 6
Exposure duration/unit	: months
Frequency of treatment	: continuously
Frequency of treatment/unit	: Not available
Concentration	: Not available

Subendpoint	Conclusion
NOAEL = 1000 mg/kg/bw/day	-

#### 11.10. Carcinogenicity

##### Data for mixture

Not available

##### Substances

Not available

#### 11.11. Reproductive and Developmental Toxicity

##### Data for mixture

Not available

##### Substances

Not available

#### 11.12. Genotoxicity

##### Data for mixture

Not available

##### Substances

Not available

#### 11.13. In vitro genotoxicity

##### Data for mixture

Not available

##### Substances

Not available

#### 11.14. Respiratory sensitisation

##### Data for mixture

Not available

##### Substances

Not available

#### Additional information

Not available

## SECTION 12: Ecological information

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

##### Acute aquatic toxicity

##### Substances

##### sebacic acid (CAS: 111-20-6)

Animals/category	: Fish
Species	: Danio rerio (previous name: Brachydanio rerio)
Test duration	: 96
Unit	: h
Guideline	: OECD Guideline 203 (Fish, Acute Toxicity Test)

Subendpoint	Value	Unit
LC50	> 100	mg/L

Remarks : Not available

Animals/category : Fish  
Species : other: *Scophthalmus maximus*  
Test duration : 96  
Unit : h  
Guideline : other: Paris Commission Guideline (PRACOM 2006): Protocols on Methods for the Testing of Chemicals Used in the Offshore Oil Industry. Part B: Protocol for a Fish Acute Toxicity Test.

Subendpoint	Value	Unit
LC50	> 18	mg/L

Remarks : Not available

Animals/category : Aquatic invertebrates  
Species : *Daphnia magna*  
Test duration : 48  
Unit : h  
Guideline : OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Subendpoint	Value	Unit
EC50	> 100	mg/L

Remarks : Not available

Animals/category : Aquatic invertebrates  
Species : other: *Acartia tonsa*  
Test duration : 48  
Unit : h  
Guideline : other: ISO 14669-1999: Water quality - Determination of acute lethal toxicity to marine copepods (Copepoda, Crustacea)

Subendpoint	Value	Unit
LC50	18	mg/L

Remarks : Not available

Animals/category : Aquatic invertebrates  
Species : other: *Acartia tonsa*  
Test duration : 48  
Unit : h  
Guideline : other: ISO 14669-1999: Water quality - Determination of acute lethal toxicity to marine copepods (Copepoda, Crustacea)

Subendpoint	Value	Unit
NOEC	10	mg/L

Remarks : Not available

Animals/category : alga or cyanobacteria  
Species : *Skeletonema costatum*  
Test duration : 72

Unit : h  
Guideline : ISO 10253 (Water quality - Marine Algal Growth Inhibition Test with *Skeletonema costatum* and *Phaeodactylum tricornutum*)

Subendpoint	Value	Unit
NOEC	3	mg/L
EL50	38.7	mg/L

Remarks : Not available

Animals/category : microorganisms  
Species : activated sludge, domestic  
Test duration : 3  
Unit : h  
Guideline : ISO 8192 (Water quality - Test for inhibition of oxygen consumption by activated sludge for carbonaceous and ammonium oxidation)

Subendpoint	Value	Unit
EC20	> 1 000	mg/L

Remarks : Not available

#### Acute sediment toxicity

##### Substances

##### sebacic acid (CAS: 111-20-6)

Animals/category : Crustacea  
Species : *Corophium volutator*  
Guideline : other: OSPAR Protocols on Methods for the Testing of Chemicals Used in the Offshore Oil Industry. OSPAR Commission 2005. PartA: A Sediment Bioassay Using an Amphipod *Corophium* sp.  
Test duration : 10  
Unit : days

Subendpoint	Value	Unit
LC50	161	mg/kg sediment dw

Remarks : Not available

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

No data available.

#### 12.7. Additional ecotoxicological information

Not available

### SECTION 13: Disposal considerations



### 13.1. Waste treatment methods

#### Product/Packaging disposal

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to applicable legislation.

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

For recycling, contact manufacturer.

### 13.2. Additional information

Not available

## SECTION 14: Transport information

### 14.1. UN number

The product is not hazardous according to the applicable transport regulations (ADR/RID/ADN/IMDG/ICAO/IATA).

### 14.2. UN proper shipping name

Not regulated.

### 14.3. Transport hazard class(es)

Not regulated.

### 14.4. Packing group

Not regulated.

### 14.5. Environmental hazards

Not regulated.

### 14.6. Special precautions for user

Not regulated.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated.

### 14.8. Additional information

Not available

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006. This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

Not available

### 15.2. Chemical Safety Assessment

For this substance/mixture a chemical safety assessment is not required. For this substance/mixture a chemical safety assessment has been elaborated. For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

### 15.3. Additional information

Not available

## SECTION 16: Other information

### 16.1. Indication of changes

Version 2.1

### 16.2. Abbreviations and acronyms

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail. CAS: Chemical Abstract Service Number. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. EC: European Commission Number. CLP: Classification, labeling and packaging. VPvB: very persistent and very bioaccumulative substances.

#### 16.3. Key literature references and sources for data

No data available.

#### 16.4. Training advice

Not available

#### 16.5. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

----- End of the SDS -----