

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

# Sebacic acid

Version number: 2  
Issued: 2024-04-23  
Replaces SDS: 2022-01-31



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

### 1.1. Product identifier

**Trade name**

Sebacic acid

**CAS number**

111-20-6

**EC number**

203-845-5

**Synonyms**

n-Decanedioic acid

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

**Relevant identified uses**

Research and development. Laboratory Chemicals. Manufacture of substances.

**Not suitable for use in**

Not suitable for human consumption or veterinary purposes.

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

**Supplier**

Molekula Group

Address

Molekula Ltd, Lingfield Way, Darlington,  
DL1 4XX Darlington  
United Kingdom

Telephone

+44 (0) 3302 000 333

Email

info@molekula.com

Web site

www.molekula.com

**Contact person**

Kevin Banks

**Email**

+44 (0) 7769276927

### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

### 2.2. Label elements

#### Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash dust/fumes/gas/mist/vapours/spray thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to local regulations.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Sebacic acid	111-20-6 203-845-5 - -	100%	-	- - -	-

#### Molecular weight

202.25

#### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Move to fresh air if inhaled.

Get medical attention if any discomfort continues.

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## **Skin contact**

Rinse skin with water.

If skin irritation or rash occurs: Get medical advice/attention.

## **Eye contact**

Remove contact lenses if present. Rinse eyes with water.

If eye irritation persists: Get medical advice/attention.

## **Ingestion**

Rinse mouth.

Get medical advice/attention if you feel unwell.

## **Information for doctors**

No data available.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

## **Inhalation**

May cause respiratory irritation.

## **Skin contact**

Prolonged contact may cause dryness of the skin.

## **Eye contact**

May be slightly irritating to the eyes.

## **Ingestion**

May cause discomfort if swallowed.

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

Treat symptomatically. No special treatment requirement.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

#### **Unsuitable extinguishing media**

No specific fire fighting procedure given.

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

Specific hazards: Combustible.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

## SECTION 6: Accidental release measures

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

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation. For precautions see section 2.2.

#### General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.

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

Store at ambient temperature. Store in a dry place. Store in a closed container.

### 7.3. Specific end use(s)

No specific usage precautions noted.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits

No occupational exposure limit assigned.

#### PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Sebacic acid (111-20-6/203-845-5)	PNEC	Freshwater	0.018 mg/l
Sebacic acid (111-20-6/203-845-5)	PNEC	Sediment (freshwater)	0.547 mg/kg sedi- ment dw
Sebacic acid (111-20-6/203-845-5)	PNEC	Intermittent releases	0.18 mg/l
Sebacic acid (111-20-6/203-845-5)	PNEC	Sewage Treatment Plant	10 mg/l
Sebacic acid (111-20-6/203-845-5)	PNEC	Soil	0.0986 mg/kg soil dry weight
Sebacic acid (111-20-6/203-845-5)	PNEC	Marine water	0.0018 mg/l
Sebacic acid (111-20-6/203-845-5)	PNEC	Sediment (marine water)	0.0547 mg/kg sedi- ment dw

### 8.2. Exposure controls

#### Personal Protective Equipment Symbols



#### Eye / face protection

Wear eye protection.

#### Hand protection

Wear protective gloves. Recommended gloves: Nitrile.

Glove Thickness: 0.11mm

Breakthrough time: 8 hours

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Wash contaminated skin thoroughly after handling.

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## Other skin protection

Wash skin thoroughly after handling.

## Respiratory protection

Provide adequate ventilation.

## Environmental exposure controls

Avoid discharge into drains.

## SECTION 9: Physical and chemical properties

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

#### Physical state

Solid

#### Colour

White.

#### Odour

No data available

#### Melting point / freezing point

131 - 137 °C

#### Boiling point or initial boiling point and boiling range

294 °C

#### Flammability

No data available

#### Lower and upper explosion limit

No data available

#### Flash point

No data available

#### Auto-ignition temperature

No data available

#### Decomposition temperature

No data available

#### pH

No data available

#### Kinematic viscosity

No data available

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## Solubility

No data available

## Partition coefficient n-octanol/water

log Pow: 1.5 at 23 °C

## Vapour pressure

No data available

## Density and/or relative density

1.21 g/cm<sup>3</sup>

## Relative vapour density

No data available

## Explosive properties

Not classified as explosive.

## Particle characteristics

No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidising agents.

Bases.

Strong acids.

### 10.4. Conditions to avoid

Heating.

### 10.5. Incompatible materials

Strong oxidising agents. Bases. Reducing Agents.

### 10.6. Hazardous decomposition products

See section 5.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
Sebacic acid 111-20-6 / 203-845-5	LD50	>5000 mg/kg	Oral	Rat
Sebacic acid 111-20-6 / 203-845-5	LD50	>2000 mg/kg	Dermal	Rat

#### Skin corrosion/irritation

Product / Substance name CAS / EC no.	Result	Species
Sebacic acid 111-20-6 / 203-845-5	No skin irritation.	Rabbit

#### Serious eye damage/irritation

Product / Substance name CAS / EC no.	Result	Species
Sebacic acid 111-20-6 / 203-845-5	No eye irritation.	Rabbit

#### Respiratory or skin sensitisation

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Sebacic acid 111-20-6 / 203-845-5	Negative.	Guinea Pig	Intracutaneous test

#### Germ cell mutagenicity

Product / Substance name CAS / EC no.	Result	Metabolic activation / Exposure	Species	Method / Guideline
Sebacic acid 111-20-6 / 203-845-5	Negative.	with and without metabolic activation	Salmonella typhimurium	Ames test



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## Aspiration hazard

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

## 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Sebacic acid 111-20-6 / 203-845-5	LC50	>100 mg/l	96 hours	Brachydanio rerio (Zebra Fish)

#### Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Sebacic acid 111-20-6 / 203-845-5	semi-static test	38.7 mg/l	72 hours	Skeletonema costatum

#### Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Sebacic acid 111-20-6 / 203-845-5	EC50	>100 mg/l	48 hours	Daphnia magna

### 12.2. Persistence and degradability

#### Persistence and degradability

Product / Substance name CAS / EC no.	Type of test	Duration	Result	Degradation
Sebacic acid 111-20-6 / 203-845-5	aerobic	7 days	98%	The product is readily biodegradable.

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## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

## 12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

## 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

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

Not applicable

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## SECTION 15: Regulatory information

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

#### EU regulations

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

This material safety data sheet complies with the requirements of Regulation (EU) 2020/878.

#### National regulations

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

No data available