



Safety Data Sheet

According to Regulation (EC) 1907/2006



1883 Succinic Acid

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Succinic Acid

1.2 Synonym:

Butanedioic Acid

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

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Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Eye Irrit. 2

Hazard Pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash...thoroughly after handling.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Classification (67/548/CEE or 1999/45/CE).

Xi IrritantR36

For the full text of the R-phrases mentioned in this section, see section 16.

Component Composition/Information

Name: Succinic Acid

Formula: $\text{HOOCCH}_2\text{CH}_2\text{COOH}$ M.= 118,09 CAS [110-15-6]

EC number (EINECS): 203-740-4

First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Foam.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Combustible. Keep away from sources of ignition.

5.4 Protective equipment:

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Avoid contact with the skin, eyes or clothing.

6.2 Precautions for care of the environment:

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. Atmospheric temperature.

Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Odourless.

pH:

Melting point/freezing point: 187 °C

Initial boiling point and boiling range: 235 °C

Flash point: 206 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density: ~1,55

Solubility: 70 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 630 °C

Decomposition temperature: above 235 °C

Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Strong oxidant agents.

10.3 Hazardous decomposition products:**10.4 Complementary information:**

Toxicological information

- **Acute toxicity:**

LD50 oral rat : 2.260 mg/kg

LD50 ipr mus : 2.702 mg/kg

- **Dangerous effects for health:**

If dust inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Irritations to the mucosae Take the usual precautions for handling chemical products.

Environmental information

12.1 Mobility:

Repartition: $\log P(\text{oct}) = -0,59$

12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (*Ps. putida*) 125 mg/l

Classification:

Highly toxic

Protozoa: *Colpoda* sp. 125 mg/l

Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.2.3 - Observations:

Acute ecotoxicity in line with the dumping concentration.

12.3 Degradability:

12.3.1 - Test:

BOD5 = 0,21 g/g

ThOD 1,31 mg/L

COD = 1,85 g/g

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

High, over 1/3

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Easily biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Non-bioaccumulable product.

12.5 Other possible effects on the environment:

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Information concerning transport

Overland (ADR):

By sea (IMDG):

By air (ICAI-IATA):

Regulatory information

Other information

Other precautionary statements

Labelling (65/548/CEE or 1999/45/CE)

R-phrases):	R36 Irritating to eyes.
S-phrases):	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

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