

DR. J. PHARMACHEM PVT. LTD.

Regd. Office : 722/AB/15, "Nirmal", Laxmi Park Colony, Navi Peth, Pune - 411030, India
Telephone : +91 (20) 24530071
Email : info@jpharmachem.com, Web : www.jpharmachem.com
Factory : Plot No. - 311, Sector- 10, Bhosari, Pune, India, 411035



(an ISO 9001:2016 Certificate Company)

Safety Data Sheet

Succinic Acid

Revision date :

Page: 1/7

Version : 3.0

NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name Succinic acid
CAS NO. 110-15-6

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

1. As a food additive and dietary supplement, succinic acid is generally recognized as safe by the U.S. Food and Drug Administration.
2. Succinic acid is used primarily as an acidity regulator in the food and beverage industry.

Details of the supplier of the safety data sheet

COMPANY

DR. J. PHARMACHEM PVT LTD

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Human Health Serious eye damage (Category 1), H318

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

Pictogram



Signal word

Danger

H318

Causes serious eye damage.

P280

Wear eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense

According to European Directive 67/548/EEC as amended

none

2.3 Other hazards

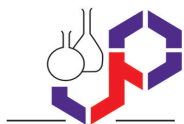
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name Butanedioic acid
CAS NO 110-15-6



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Safety Data Sheet

Succinic Acid

Revision date :

Page: 2/7

Version : 3.0

NUMBER

EC Number	203-740-4
Molecular Formula	C ₄ H ₆ O ₄
Molecular Weight	118.09
Concentration	<= 100 %

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled	fresh air.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses
If swallowed	immediately make victim drink water (two glasses at most). Consult a physician

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

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO₂) Dry powder

5.2 Special hazards arising from the substance or mixture Carbon oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

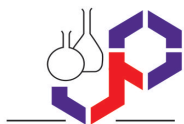
5.3 Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

5.4 Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure



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Page: 3/7

Version : 3.0

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adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry.

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

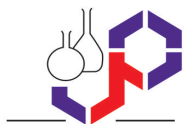
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices



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Safety Data Sheet

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Revision date :

Page: 4/7

Version : 3.0

NUMBER

are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

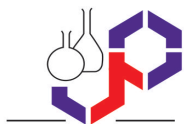
9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	White cristale
b) Odour	odorless
c) Odour Threshold	No data available
d) pH (% solution in water)	2.7 at 10 g/l at 20 °C
pH	No data available
e) Melting point/freezing point	188 °C
f) Initial boiling point and boiling range	235 °C at 1.013 hPa
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	1.57 g/cm ³ at 25 °C
m) Relative density	No data available
n) Water solubility	83 g/l at 25 °C - completely soluble
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	> 220 °C
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

10 STABILITY AND REACTIVITY

- 10.1 Reactivity
- The following applies in general to flammable organic substances and mixtures:
in correspondingly fine distribution, when whirled up a dust explosion potential may generally be as



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Revision date :

Page: 5/7

Version : 3.0

NUMBER

10.2	Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3	Possibility of hazardous reactions	Violent reactions possible with: strong oxidising agents bases
10.4	Conditions to avoid	no information available
10.5	Incompatible materials	No data available
10.6	Hazardous decomposition products	In the event of fire: see section 5

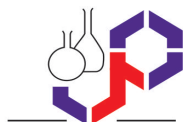
11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - male and female - > 6.740 mg/kg
Acute Inhalation toxicity	LC50 Inhalation - Rat - male and female - 4 h - > 1,284 mg/l - dust/mist
Acute dermal toxicity	No data available
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Irreversible effects on the eye - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
RTECS	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12 ECOLOGICAL INFORMATION

12.1 Toxicity



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Revision date :

Page: 6/7

Version : 3.0

NUMBER

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Toxicity to Algae/Aquatic plants	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 46.8 mg/l - 72 h
Toxicity to microorganisms	static test EC50 - activated sludge - > 300 mg/l - 3 h

12.2 Persistence and degradability

Biodegradation

aerobic - Exposure time 28 d Result: 96.55 % - Readily biodegradable. (OECD Test Guideline 301E)

12.3 Bio accumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

No data available

14 TRANSPORT INFORMATION

14.1 UN number

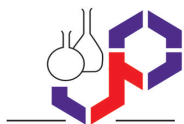
ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

ADR/RID	IMDG	IATA
Not dangerous goods	Not dangerous goods	Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA
-	-	-



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Page: 7/7

Version : 3.0

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14.4 Packaging group

ADR/RID

IMDG

IATA

-

-

-

14.5 Environmental hazards

ADR/RID

IMDG Marine pollutant

IATA

no

no

no

14.6 Special precautions for user

No data available

15 REGULATORY INFORMATION

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

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027