

# MATERIAL SAFETY DATA SHEET

## SUCCINIC ACID NATURAL

### 1. Identification

- Product name: Succinic Acid Natural
- Synonyms: Butanedioic acid
- Molecular Formula: C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>
- Molecular Weight: 118.09
- CAS No.: 110-15-6
- FEMA No.: 4719
- EINECS No.: 203-740-4
- FDA: 172.861
- CoE: 24

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### 2. Hazards identification

- **Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**

Serious eye damage (Category 1) H318

- **Label elements**  
**Labelling according Regulation (EC) No 1272/2008**



Pictogram

Signal word Danger

Hazard statement(s)

H318 Causes serious eye damage

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard none

Statements

- **Other hazards** none

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### 3. **Composition/information on ingredients**

- Succinic Acid ≥ 99%
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### 4. **First aid measures**

- **Eye contact:**  
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
  - **Skin contact:**  
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
  - **Inhalation:**  
Remove from exposure and move to fresh air immediately. Get medical aid.
  - **After ingestion:**  
Get medical aid. Wash mouth out with water.
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### 5. **Fire-fighting measures**

- **General Information:**  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
  - **Extinguishing Media:**  
Use water spray, dry chemical, carbon dioxide, or chemical foam.
  - **Special method of fire-fighting**  
Cool endangered containers with water spray ;Containers may explode when heated.
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### 6. **Accidental release measures**

- **General Information:**  
Use proper personal protective equipment as indicated in Section 8.
  - **Spills/Leaks:**  
Vacuum or sweep up material and place into a suitable disposal container.
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### 7. **Handling and storage**

- **Handling:**  
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

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- **Storage:**  
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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## 8. Exposure controls and personal protection

- Technical measures                      Local exhaust ventilation necessary  
Take precautionary measures against electrostatic charging  
Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen).
- Engineering Controls:                      Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower..
- Respiratory protection                      In case of olfactory nuisance: respirator with independent air supply or mask with activated charcoal filter
- Eyes:    Safety glasses
- Hand    Protective gloves
- Skin:    Wear appropriate protective clothing to prevent skin exposure

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## 9. Physical and chemical properties:

- Form:    Crystals/powder
- Color:    White
- Odor    Odorless
- pH value at 10g/l H<sub>2</sub>O                        N/A
- Boiling point (°C):                            235 °C at 1,013 hPa
- Flash point (°C):                              >90
- Melting point (°C):                            185 - 190 °C
- Explosive properties:                           N/A
- Lower explosion limit:                        N/A
- Upper explosion limit:                        N/A
- Ignition temperature:                        N/A
- Oxidizing properties:                        N/A
- Vapor pressure:                                N/A
- Specific gravity @25°C:                       N/A
- Solubility                                        1 g in 13 mL water; 1 g in 18.5 mL alcohol

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## 10. Stability and reactivity

- Chemical Stability:                            Stable at room temperature in closed containers under normal storage and handling conditions.

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- Conditions to Avoid Ignition sources, excess heat, freezing temperatures, confined spaces.
- Substances to be avoided: Metals, strong oxidizing agents, strong bases.
- Hazardous decomposition: Carbon dioxide, carbon monoxide.
- Hazardous Polymerization: Will not occur.

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### 11. Toxicological information

- Acute toxicity LD50 Oral - rat - 2.260 mg/kg  
LC50 Inhalation - rat - male and female - 4 h - > 1,284 mg/l
- Sensitization No information available.
- Mutagenicity No information available.
- Other Studies See actual entry in RTECS for complete information.

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### 12. Ecological information

- No information available

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### 13. Disposal considerations

- Waste from residues Observe local/national regulations regarding waste disposal  
Incinerate in qualified installation with flue gas scrubbing

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### 14. Transport information

- UN number  
ADR/RID:- IMDG:- IATA:-
- Shipping Name:  
ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods
- Hazard Class:  
ADR/RID:- IMDG:- IATA:-
- Packing Group:  
ADR/RID:- IMDG:- IATA:-

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## 15. Regulatory information

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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

- **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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## 16. Other information

- Document Number: B-N47190-08
- Creation Date: Feb. 12, 19
- Revision: 8.0
- Disclaimer: The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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