

Section 1. Product and Company Identification

**Product Name** Succinic Anhydride  
**CAS Number** 108-30-5

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Respiratory sensitization (Category 1), H334  
Skin sensitization (Category 1), H317  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.

**Precautionary Statements**

P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.



- P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P285 In case of inadequate ventilation wear respiratory protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

**Common Name** Succinic Anhydride  
**Synonym(s)** Dihydro-2,5-furandione  
**Formula** C<sub>4</sub>H<sub>4</sub>O<sub>3</sub>  
**CAS Number** 108-30-5

COMPONENT	CAS NUMBER	CONCENTRATION
Succinic Anhydride	108-30-5	90 - 100%

Section 4. First Aid Measures

**Description of first-aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

#### Section 5. Firefighting Measures

##### **Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** No data available

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

#### Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Moisture sensitive

Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL)**

Application Area	Exposure Route	Health Effect	Value
Workers	Inhalation	Acute local effects	0.41 mg/m <sup>3</sup>
Workers	Skin Contact	Long-term systemic effects	83.3 mg/kg BW/d
Workers	Inhalation	Long-term systemic effects	10 mg/m <sup>3</sup>
Workers	Inhalation	Long-term local effects	0.41 mg/m <sup>3</sup>
Workers	Skin Contact	Acute systemic effects	167 mg/kg BW/d
Workers	Inhalation	Acute systemic effects	10 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Compartment	Value
Marine Water	0.01 mg/l
Fresh Water	0.1 mg/l
Sewage Treatment Plant	3 mg/l
Aquatic Intermittent Release	1 mg/l

**Exposure controls**

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

**Personal protective equipment**

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains.

#### Section 9. Physical and Chemical Properties

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

**Appearance:** Crystalline

**Color:** White

**Odor:** Pungent

**Odor Threshold:** No data available

**pH:** 2.7 at 10 g/l at 20°C (68°F)

**Melting point/freezing point:** 118 - 120°C (244 - 248°F) - lit.

**Initial boiling point and boiling range:** 261°C (502°F) - lit.

**Flash point:** 157°C (315°F)

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** 1 hPa (1 mmHg) at 92°C (198°F)

**Vapor density:** No data available

**Relative density:** No data available

**Water solubility:** 62.9 g/l at 20°C (68°F) - OECD Test Guideline 105

**Partition coefficient (n-Octanol/water):** log Pow: 2.44 at 40°C (104°F)

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

##### Other safety information

**Bulk density:** 550 - 600 kg/m<sup>3</sup>

#### Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents, Alcohols, Amines, Acids

##### Hazardous decomposition products

**Hazardous decomposition products formed under fire conditions:** Carbon oxides

**Other decomposition products:** No data available

In the event of fire: see section 5

Section 11. Toxicological Information

**Acute toxicity**

**LD50 Oral - Rat - male and female:** 1,794.9 mg/kg

(OECD Test Guideline 401)

**Inhalation:** No data available

**LD50 Dermal - Rat - male and female:** > 2,000 mg/kg

(OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin - in vitro assay

Result: Corrosive

(OECD Test Guideline 431)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Corrosive

**Respiratory or skin sensitization**

in vivo assay - Mouse

Result: May cause sensitization by skin contact.

(OECD Test Guideline 429)

**Germ cell mutagenicity**

No data available

reverse mutation assay

S. typhimurium

Result: negative

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Succinic anhydride)

**IARC:** No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**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

**Additional Information**

**Repeated dose toxicity**

Rat - male and female - Oral - OECD Test Guideline 408

**RTECS:** WN0875000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

**Toxicity**

**Toxicity to fish**

semi-static test LC50 - Danio rerio (zebra fish): > 100 mg/l (96 h)  
(OECD Test Guideline 203)

Remarks: Read-across (Analogy)

**Toxicity to daphnia and other aquatic invertebrates**

Immobilization EC50 - Daphnia magna (Water flea): > 100 mg/l (48 h)  
(OECD Test Guideline 202)

Remarks: Read-across (Analogy)

**Toxicity to algae**

Growth inhibition EC50 - Pseudokirchneriella subcapitata: > 100 mg/l (72 h)  
(OECD Test Guideline 201)

Remarks: Read-across (Analogy)

**Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d

Result: 96.55% - Readily biodegradable.

Remarks: Read-across (Analogy)

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US)**

**UN number:** 3261

**Class:** 8

**Packing group:** II

**Proper shipping name:** Corrosive Solid, Acidic, Organic, N.O.S. (Succinic anhydride)



**Reportable Quantity (RQ):**  
**Poison Inhalation Hazard:** No

**IMDG**

**UN number:** 3261

**Class:** 8

**Packing group:** II

**EMS-No:** F-A, S-B

**Proper shipping name:** Corrosive Solid, Acidic, Organic, N.O.S. (Succinic anhydride)

**IATA**

**UN number:** 3261

**Class:** 8

**Packing group:** II

**Proper shipping name:** Corrosive Solid, Acidic, Organic, N.O.S. (Succinic anhydride)

Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

Succinic anhydride (CAS-No. 108-30-5)

Revision Date: 1993-02-16

**New Jersey Right to Know Components**

Succinic anhydride (CAS-No. 108-30-5)

Revision Date: 1993-02-16

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health:** 3

**Flammability:** 1

**Reactivity:** 0



**NFPA Rating**  
**Health:** 3  
**Flammability:** 1  
**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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