

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Succinic Acid 2,2-Dimethylhydrazide

PRODUCT NUMBER: S746

COMPANY INFO: PhytoTechnology Laboratories®

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H402 – Acute aquatic toxicity (Category 3) H412 – Chronic aquatic toxicity (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram: None Signal Word: None

Hazard Statements: Precautionary Statements:

H412 – Harmful to aquatic life with long lasting effects. P273 – Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Daminozide CAS No: 1596-84-5 Formula: $C_6H_{12}N_2O_3$ Molecular Weight: 160.17 EC No.: 216-485-9

Ingredient	CAS Number	Percent	Hazardous	
Succinic Acid 2,2- Dimethylhydrazide	1596-84-5	>99 %	No exposure limits established by OSHA or ACGIH	

4. FIRST AID MEASURES

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

area.

Route of Entry Symptoms First Aid Procedures

Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything

by mouth to an unconscious person. Get medical attention.

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Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15

May cause redness, tearing, or

blurred vision.

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation**

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Protect from moisture.

Recommended Storage Temperature: 2 to 6 °C

Incompatibilities: Strong oxidizing agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs):

No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

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Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Wear appropriate dust mask

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to Cream Powder

pH: Under Development

Solubility: Soluble in Water Melting Range: 1624 -164 °C

Melting Range: 1624 -164 °C Vapor Density: No data available

Vapor Pressure: No data available

Specific Gravity: 1.34

Odor: Odorless

Odor Threshold: No data available

Viscosity: No data available

Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and

Flammability (solid, gas):

No data available

Boiling Range:

No data available

Partition coefficient:

No data available

n-octanol/water):

No data available

Auto-ignition Temperature:

No data available

Decomposition Temperature: Flash Point (Closed Cup):

No data available

Flammable Limits:

Upper (%) – No data available

Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Dust generation

Incompatibles Materials: Strong oxidizing agents, strong acids, strong bases

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 8400

LD₅₀ (IP-Mouse)(mg/Kg): 1325

 LD_{50} (Oral-Mouse)(mg/Kg): 6300

Carcinogenicity: NTP: Clear Evidence

IARC: No

Z List: No

OSHA Reg: No

Reproductive Toxicity: No data available

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Symptoms Associated with

Irritation, itching, gastrointestinal upset, nausea, vomiting, headache, possible mutagenic and

Overexposure:

tumorigenic effects, possible liver and kidney impairment

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Liver

Medical Conditions

None identified

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: WM9625000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish: LC50 – rainbow trout – 149.3 mg/L – 96 hrs.

Toxicity to daphnia: EC50 – water flea – 98.5 mg/L – 48 hrs.

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

Other Adverse Effects: Harmful to aquatic life.

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

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Section 311/312 Hazard: No SARA Hazards

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

Pennsylvania Right to Know Components: CAS No.: 1596-84-5 Daminozide□

New Jersey Right to Know Components: CAS No.: 1596-84-5 Daminozide□

California Prop. 65 Components: CAS-No.: 1596-84-5 Daminozide□

WARNING: This product contains a chemical known to the State of

California to cause cancer.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
0		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
0	0	0	

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