



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: L-Ascorbic Acid, ACS Reagent
PRODUCT NUMBER: A106
COMPANY INFO: PhytoTech Labs Inc.
14610 W 106th St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

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

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. are intended for research and laboratory 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:

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 3-Oxo-L-gulofuranolactone; Vitamin C
CAS No: 50-81-7
Formula: C₆H₈O₆
Molecular Weight: 176.13 g/mol
EC No.: 200-066-2

Ingredient	CAS Number	Percent	Hazardous
L-Ascorbic Acid	50-81-7	>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.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 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 self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: Carbon dioxide and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

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

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 product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide adequate ventilation at places where dust is formed. Wash thoroughly after use.

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

Incompatibilities: Strong oxidizers, alkalis, iron, copper, sodium salicylate, sodium nitrate, and methenamine

Recommended Storage Temperature: Room Temperature

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.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.
Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.
A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
 pH: No data available
 Solubility: Soluble in water
 Melting Range: 190-192 °C
 Vapor Density: No data available
 Vapor Pressure: No data available
 Specific Gravity: Odorless
 Odor: No data available
 Odor Threshold: No data available
 Viscosity: 1.65 g/cm³
 Relative Density: White powder
 Evaporation Rate: No data available
 Initial Boiling Point and Boiling Range: No data available
 Flammability (solid, gas): No data available
 Partition coefficient: n-octanol/water): No data available
 Auto-ignition Temperature: No data available
 Decomposition Temperature: No data available
 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: No data available
 Conditions to Avoid: Light, air, incompatibles
 Incompatibles Materials: Strong oxidizers, alkalis, iron, copper, sodium salicylate, sodium nitrate, and methenamine
 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Toxicity: <table border="0" style="margin-left: 20px;"> <tr> <td>LD₅₀ (Oral-Rat)(mg/Kg)</td> <td>11900</td> </tr> <tr> <td>LD₅₀ (IPR-Mouse)(mg/Kg)</td> <td>3367</td> </tr> <tr> <td>LD₅₀ (Dermal-Rat)(mg/Kg)</td> <td>518</td> </tr> </table>	LD ₅₀ (Oral-Rat)(mg/Kg)	11900	LD ₅₀ (IPR-Mouse)(mg/Kg)	3367	LD ₅₀ (Dermal-Rat)(mg/Kg)	518
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Carcinogenicity: <table border="0" style="margin-left: 20px;"> <tr> <td>NTP:</td> <td>No</td> </tr> <tr> <td>IARC:</td> <td>No</td> </tr> <tr> <td>OSHA Reg:</td> <td>No</td> </tr> </table>	NTP:	No	IARC:	No	OSHA Reg:	No
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IARC:	No					
OSHA Reg:	No					
Reproductive Toxicity: No data available						
Specific Target Organ Toxicity: <table border="0" style="margin-left: 20px;"> <tr> <td>Single Exposure:</td> <td>No data available</td> </tr> <tr> <td>Repeated Exposure:</td> <td>No data available</td> </tr> </table>	Single Exposure:	No data available	Repeated Exposure:	No data available		
Single Exposure:	No data available					
Repeated Exposure:	No data available					
Target Organs: No data available						
Routes of Entry: Skin or eye contact						

NIOSH/RTECS NO: CI7650000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

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

14. TRANSPORT INFORMATION

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

Hazard Class: N/A
Reportable Quantity: 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: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: This product is not on the Massachusetts Substance List (MSL).

Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance List (Chapter 323).

New Jersey Right to Know Components:

This product is not listed amongst the New Jersey Right to Know Hazardous Substance Fact Sheets

California Prop. 65 Components:

This product is not known to the State of California to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Flammability	Physical Hazard	Personal Protection
	0	0	0	0
NFPA Rating:	Health Hazard	Fire Hazard	Instability	Special Hazard
	0	0	0	

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 8 October 2019