Safety Data Sheet

L-Ascorbic Acid



Section 1 Product Description

Product Name: L-Ascorbic Acid

Recommended Use: Science education applications Synonyms: Vitamin C, Ascorbic Acid

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Section 3 Composition / Information on Ingredients

Chemical Name CAS# <u>%</u> L-Ascorbic Acid 50-81-7 100

First Aid Measures Section 4

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eves: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Ingestion:

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air. Take precautionary

measures against static discharges.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid

creating and inhaling dust. Avoid contact with skin and eyes.

Reduce airborne dust and prevent scattering by moistening with water Ventilate the area by opening door and/or turning on fans and blowers. Vacuum or sweep up material and place in a disposal container After removal, flush contaminated area thoroughly with water. Pick up

wash liquid with additional absorbent and place in a disposable container.

Section 7 **Handling and Storage**

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Handling: Readily absorbs moisture from air. Keep away from heat. **Storage:** Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)No data availableN/AN/AN/AN/A

Control Parameters

Engineering Measures:No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Natural rubber, Neoprene, PVC or equivalent.

Section 9 Physical Data

Formula: C6H8O6 Vapor Pressure: 9.28x10(-11) mm Hg @ 25°C

Molecular Weight: 176.12 Evaporation Rate (BuAc=1): N/A
Appearance: White Crystals Vapor Density (Air=1): N/A
Odor: No data available Specific Gravity: 1.65
Odor Threshold: No data available Solubility in Water: Soluble

pH: 1.0 - 2.5 at 176 g/l at 25 °C (77 °F)

Log Pow (calculated): No data available

Melting Point: 190 C

Autoignition Temperature: No data available

Melting Point: 190 C

Autoignition Temperature: No data available

Boiling Point: No data available

Decomposition Temperature: No data available

Flash Point: No data available
Flammable Limits in Air: N/A
Viscosity: No data available
Percent Volatile by Volume: <1%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability:Stable under normal conditions.Conditions to Avoid:None known. Visible lightIncompatible Materials:Strong oxidizing agents

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, Ingestion, and Skin contact.

Symptoms (Acute): Impaired Kidney Function

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50
L-Ascorbic Acid 50-81-7 Oral LD50 Mouse Not determined Not determined

3367 mg/kg Oral LD50 Rat

11900 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

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No data available 50-81-7 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

I/A 50-81-7

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for transport.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

No data available 50-81-7 No No No No No No

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH American Conference of Governmental NTP National Toxicology Program

Industrial Hygienists OSHA Occupational Safety and Health Administration

CAS Chemical Abstract Service Number PEL Permissible Exposure Limit

CERCLA Comprehensive Environmental Response, ppm Parts per million

Compensation, and Liability Act RCRA Resource Conservation and Recovery Act

DOT U.S. Department of Transportation SARA Superfund Amendments and Reauthorization Act

IARC International Agency for Research on Cancer TLV Threshold Limit Value

N/A Not Available TSCA Toxic Substances Control Act IDLH Immediately dangerous to life and health

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