



MATERIAL SAFETY DATA SHEET

Section 1 Product and Company Identification

Product Name: Ascorbic Acid

Synonyms: Vitamin C

Company: Shanghai Runkey Biotech Co., Ltd

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Section 2 Composition/information on ingredients

Components Number:	CAS Number	Approximate (%) by Wt.
Ascorbic Acid	50-81-7	99%

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 Hazards identification

Emergency Overview

GHS Classification

Combustible dusts - Category 1

GHS Label elements, including precautionary statements

Signal: Warning

Hazard statement(s)

Not available. May form combustible dust concentrations in air.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

P233 Keep container tightly closed. May form explosive dust-air mixture if dispersed.

Section 4 First aid measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.



Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 Fire fighting measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 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. Do not let this chemical enter the environment.

Section 7 Handling and storage

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container. Store under an inert atmosphere.

Section 8 Exposure controls/personal protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 50817:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 Physical and chemical properties

Physical State: Crystals

Color: white to almost white

Odor: Not available

pH: 2.12.6 (5% aq. soln.)

Vapor Pressure: Not available

Viscosity: Not available



Boiling Point: Not available

Freezing/Melting Point: 190 - 192 deg C(decom)

Autoignition Temperature: 380 deg C (716.00 deg F)

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: 333 g/l (20° C)

Specific Gravity/Density:

Molecular Formula: C₆H₈O₆

Molecular Weight: 176.13

Section 10 Stability and reactivity

Chemical Stability:

Stable under normal temperatures and pressures. Air sensitive. Light sensitive.

Conditions to Avoid:

Incompatible materials, light, exposure to air, heating to decomposition.

Incompatibilities with Other Materials:

Strong oxidizing agents, aluminum, copper, copper alloys, zinc.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 Toxicological information

RTECS#: CAS# 50817: CI7650000

LD50/LC50: RTECS:

CAS# 50817: Oral, mouse: LD50 = 3367 mg/kg;

Oral, rat: LD50 = 11900 mg/kg

Carcinogenicity:

Ascorbic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 Ecological information

Ecotoxicity: Fish: *Leuciscus idus*: LC50: 33000mg/l; 48 h

Section 13 Disposal considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 transport information

US DOT Shipping Description (Land) Not regulated

IMO-IMDG Shipping Description (Sea) Not regulated



IATA Shipping Description (Air) Not regulated

Section 15 Regulatory information

GHS Hazard Statements Please refer to section 3.

GHS Precautionary Statements Please refer to section 3.

Section 16 Other information

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