

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product Identification

MSDS name: L-(+)- the Ascorbic acid
Synonyms: vitamin C

Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name | % |
|---------|---------------------|------|
| 50-81-7 | L-(+)-Ascorbic Acid | 100% |

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Light sensitive Air sensitive.

POTENTIAL HEALTH EFFECTS

| | |
|------------|--|
| Eye | Contact cause transient eye irritation. |
| Skin | Low hazard for usual industrial handling. |
| Ingestion | Low hazard for usual industrial handling. May cause mild digestive tract irritation. |
| Inhalation | May cause respiratory tract irritation. |
| Chronic | Not available |

Section 4 - First Aid Measures

| | |
|--------------------|--|
| Eyes | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid. |
| Skin | Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. |
| Ingestion | Get medical aid. Wash mouth out with water. |
| Inhalation | Remove from exposure to fresh air immediately, if not breathing give artificial respiration. If breathing is difficult. give oxygen. |
| Notes to Physician | Get medical aid if cough or other symptoms appear. Treat symptomatically and |

Section 5 - Fire Fighting Measures

General Information As in any fire, wear a self-contained breathing apparatus in pressure

| | |
|--------------------------|--|
| Extinguishing Media | In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam. |
| Autoignition Temperature | Not available. |
| Flash Point | Not available. |
| NFPH Rating | Not published. |
| Explosion Limits | Lower Not available. Upper Not available. |

Essentially Natural

Products with purpose.

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Section 6 - Accidental Release Measures

General Information Use proper personal protective equipment as indicated in section
Spills/Leaks Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage Stored in a cool dry place, stored in a tightly closed container.

Section 8-Exposure Controls, Personal Protection

Engineering Controls Use adequate ventilation to keep airborne concentrations low.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 OPR 1910.133 or European Standard EN166.
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 ENJ49. Always use a NIOSH I or European standard EN 145 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State Powder
Appearance White
Odor Not available
PH Not available
Vapor Pressure Negligible
Viscosity Not available
Boiling Point Not available
Freezing/Melting Point 190 °C
Decomposition Temperature Not available
Solubility 333 Gs/L water at 20°C
Specific Gravity /Density 1.7000g/cm³
Molecular Formula C₆H₈O₆
Molecular Weight 176.13

Section 10 - Stability and Reactivity

Chemical stability Stable under normal temperatures and pressures
Conditions to Avoid Incompatible materials light exposure to air
Incompatibilities with Other Materials Strong oxidizing agents
Hazardous Decomposition Products Carbon monoxide carbon dioxide

Section 11 - Toxicological Information

RTECS # CAS # 50 81-7: C 17650000
LD50/LC50 CAS # 50-81-7: Oral mouse; LOSO=3367mg/kg Oral rat: LD50=11900mg/kg
Carcinogenicity L-(+)-Ascorbic acid not listed by OSHA Other see actual entry in RTECS for complete information

Section 12 - Ecological Information

None Available

Disclaimer: As the users' condition of work is not known, the information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations. The product must not be employed for uses other than those specified without having previously obtained written handling instructions. Users are responsible for taking all necessary to comply with the requirements of the law and local regulations. The information contained in this sheet should be regarded as the description of the safety requirements relating to our products and not as a guarantee of its properties.

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Section 13-Disposal Considerations

Dispose of in a manner consistent with local regulations.

Section 14 - Transport Information

| | US DOT | IMO | IATA | RID/ADR | Canadian TOG |
|------------------|--------|-----|------|---------|--------------|
| Shipping Name | | | | | |
| Hazard Class | | | | | |
| UN Number: | | | | | |
| Packing Group: . | | | | | |

Section 15-Regulatory Information

European/international Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Disk Phrases;

Safety Phrases;

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS # 50-81-7:0

Canada

CAS#50-81-7 is listed on Canada's DSL/DSL List.

CAS#50-81-7 is not listed on Canada's ingredient disclosure list.

Exposure Limits

US FEDERAL

TSCA

CAS # 50-81-7 is listed on the TSCA inventory.

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