Section 1 - Chemical Product and Company Identification

**MSDS Name:** L(+)-Ascorbic acid

**Catalog Numbers:**
- 10502-0000, 10502-1000, 10502-5000, 40147-0000, 40147-0050, 40147-1000, 40147-5000

**Synonyms:** Vitamin C

**Company Identification:**
- Acros Organics BVBA
  - Janssen Pharmaceuticaan 3a
  - 2440 Geel, Belgium
- Acros Organics
  - One Reagent Lane
  - Fair Lawn, NJ 07410

**For information in the US, call:** 800-ACROS-01

**For information in Europe, call:** +32 14 57 52 11

**Emergency Number, Europe:** +32 14 57 52 99

**Emergency Number US:** 201-796-7100

**CHEMTREC Phone Number, US:** 800-424-9300

**CHEMTREC Phone Number, Europe:** 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
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<tbody>
<tr>
<td>50-81-7</td>
<td>L(+)-Ascorbic acid</td>
<td>99%</td>
<td>200-066-2</td>
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</table>

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

*Not available*

**Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. Low hazard for usual industrial handling.

**Ingestion:** May cause irritation of the digestive tract. Low hazard for usual industrial handling.

**Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling.

**Chronic:**

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.

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### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, 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# 50-81-7:

**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:** 2.1-2.6 (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# 50-81-7: CI7650000
LD50/LC50: RTECS: CAS# 50-81-7: Oral, mouse: LD50 = 3367 mg/kg; Oral, rat: LD50 = 11900 mg/kg;
Carcinogenicity: L(+)-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

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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<tbody>
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<td>Not regulated as a hazardous material</td>
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<tr>
<td>Hazard Class:</td>
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<tr>
<td>Packing Group:</td>
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</table>

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases: S 24/25 Avoid contact with skin and eyes.
Safety Phrases: WGK (Water Danger/Protection)
CAS# 50-81-7: 0

Canada

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

US Federal

TSCA

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

Section 16 - Other Information

**MSDS Creation Date:** 9/04/1996  
**Revision #2 Date:** 2/14/2008

**Revisions were made in Sections:** 1, 3, 6, 7, 9, 10, 14

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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