

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 12.10.2010

Revision no. 1

Revision: 23.09.2010

1 Identification of the substance/mixture and of the company/undertaking

- **Product details**
- **Trade name:** L(+)-ASCORBIC ACID
- **Article number:** 2824
- **Application of the substance / the preparation**
Food additive
Pharmaceutical industry
- **Manufacturer/Supplier:**
AZELIS
SHEQ CORPORATE
Posthofbrug 12, box 6
B-2600 Antwerp
Belgium
- **Further information obtainable from:** Q&E
- **Information in case of emergency:**
Phone: +49 2241 549746
E mail: sds@azelis.com

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** Void

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **Classification system:**
The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The substance is not subject to classification according to EU lists and other sources of literature known to us.

3 Composition/information on ingredients

- **Chemical characterization**

· **Additional information:**

CAS: 50-81-7	ascorbic acid
EINECS: 200-066-2	

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4 First aid measures

- **General information:**
Immediately remove any clothing soiled by the product.
Seek medical treatment in case of complaints.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Rinse with water.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Remove contact lenses.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Dust could form explosive mixture with air.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Dispose of the material collected according to regulations.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Only handle and refill product in closed systems.
Handle under protective gas.
Prevent formation of dust.
Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:**
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
Prevent formation of dust.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.

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Suitable Material/Coatings for receptacles:

stainless steel, enamel, glass, polyethene

Unsuitable material for receptacle:

aluminium

copper

Zinc

Storage at: < 25 °C.

· **Information about storage in one common storage facility:** *Not required.*

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from humidity and water.

Protect from exposure to the light.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** *This is based on data that was valid at the time of writing.*

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**· **Appearance:**

Form: Crystalline

Colour: Whitish

· **Odour:** Characteristic· **Change in condition**

Melting point/Melting range: 191°C

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.· **Ignition temperature:**

Decomposition temperature: Undetermined.

· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.
Dust could form explosive mixture with air.· **Density:** Not determined.· **Solubility in / Miscibility with water:** 333 g/l

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Avoid: oxygen, light and moisture.

· **Materials to be avoided:**

Oxidizers.

Metals.

Bases.

Aluminium.

Copper.

copper alloys

Zinc.

· **Dangerous reactions** No dangerous reactions known.· **Dangerous decomposition products:** No dangerous decomposition products known.· **Additional information:** Light sensitive, air sensitive, moisture sensitive

11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

Oral LD50 11900 mg/kg (rat)

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- **Primary irritant effect:**
- **on the skin:** May cause irritation in case of skin contact.
- **on the eye:** Irritating effect.
- **ingestion:** Could cause irritation to mucous membranes, throat, oesophagus and stomach.
- **inhalation:** Dust could irritate respiratory system or lungs.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The substance is not subject to classification according to the latest version of the EU lists.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Ecotoxicological effects:**
- **Acquatic toxicity:**

LC50/96 h	1020 mg/l (fish)
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- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Q&E
- **Contact:** sds@azelis.com

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

GB