

**Identification of the substance or preparation:**

L (+) Ascorbic Acid

Revision date: 16.09.2008 / 09.10.2012 Version: 2 Date of print: 09.10.2012

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifiers****L (+) Ascorbic Acid**

The substance does not require registration according to Regulation (EC) No 1207/2006 [REACH]: X

Use of the substance/ preparation: Food and fodder additive

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

Supplier (manufacturer/importer/ Eaton Technologies GmbH

downstream user/distributor):

Begerow Product Line  
An den Nahewiesen 24  
55450 Langenlonsheim

Telephone:

+49 6704 204-0

Telefax:

+49 6704 204-121

E-mail (competent person):

SDB@Eaton.com

Dept. responsible for information:

Produktmanagement

Only available during office hours.

Information telephone:

+49 6704 204-0

**1.4. Emergency telephone number**

Dept. responsible for information:

Produktmanagement

Only available during office hours.

Emergency telephone:

+49 6704 204-0

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Further remarks:**According to EC directives or the corresponding national regulations the product does not have to be labelled.  
No risks worthy of mention. Please observe the information on the safety data sheet at all times.**2.2. Label elements****2.3. Other hazards****Possible harmful physico-chemical effects:**

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

**SECTION 3: Composition / Information on ingredients****Chemical characterization (preparation):**

Ascorbic Acid (CAS Nr. 50-81-7, EINECS- Nr. 200-066-2).

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

Change contaminated, saturated clothing.

**In case of eye contact:**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion:**

Rinse mouth immediately and drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed****Information to physician:**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media****Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>). Atomized water. Dry extinguishing powder. Alcohol resistant foam.

**Extinguishing media which must not be used for safety reasons:**

High power water jet.

**5.2. Special hazards arising from the substance or mixture****Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**

In case of fire may be liberated: Carbon monoxide. Pyrolysis products, toxic.

Danger of dust explosion.

**5.3. Advice for firefighters****Special protective equipment for firefighters:**

In case of fire: Wear self-contained breathing apparatus.

**Additional information:**

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

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**SECTION 6: Accidental release measures**

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**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions:**

Wear personal protection equipment. Avoid generation of dust. Provide adequate ventilation. Keep unprotected people away and stay on the upwind side.

Remove all sources of ignition.

**6.2. Environmental precautions****Environmental measures:**

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

**6.3. Methods and material for containment and cleaning up****Methods for cleaning up:**

Take up mechanically. Avoid generation of dust. Dispose of waste according to applicable legislation.

**6.4. Reference to other sections**

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advices on safe handling:**

Transfer and handle product only in closed systems. Avoid generation of dust. Provide for sufficient ventilation and punctiform suction at critical points.

**Precautions against fire and explosion:**

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges. Danger of dust explosion.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storerooms and containers:**

Unsuitable material for Container: Aluminium. Copper. Zinc.

**Hints on joint storage:**

Do not store together with: Oxidising agent.

**Further information on storage conditions:**

Keep container tightly closed and in a well-ventilated place. Store in a dry place. Protect against: UV-radiation/sunlight. Contact with air/oxygen

Do not store at temperatures over: 25 °C.

**Storage class:** 11

**7.3. Specific end use(s)****SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Technical measures:**

Provide for sufficient ventilation and punctiform suction at critical points.

Avoid generation of dust.

**Respiratory protection:** Respiratory protection necessary at/for: Generation/formation of dust

Suitable respiratory protection apparatus: Filtering device (DIN EN 147). P 1

**Hand protection:** 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.

**Suitable material:** Wearing time with permanent contact: Butyl caoutchouc (butyl rubber).

Wearing time with occasional contact (splashes): NBR (Nitrile rubber).

**Penetration time (maximum wearing period):** > 120 min

**Eye protection:** Eye glasses.

**Body protection:** Lab coat.

Protect skin by using skin protective cream.

**General protection and hygiene measures:**

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid contact with skin and eyes.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state:** crystalline, Powder

**Colour:** white light yellow

**Odour:** characteristic

**Important health, safety and environmental information:**

			Unit		Method
pH:	-	3		at °C 20	5 g/l
Melting point / melting range:	190	- 192	°C		
Flash point (°C):	n.a.		°C		

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**Explosivity:** *Dust explosibility*  
**Bulk density:** 500 - 900 **kg/m<sup>3</sup>**  
**Water solubility (g/l):** 333 **g/l** **at °C** 20

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity****10.2. Chemical stability**

Substance is, under normal conditions, chemically stable.

**10.3. Possibility of hazardous reactions**

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Oxidising agent.

**10.4. Conditions to avoid**

Protect against:

Heating

Humidity

UV-radiation/sunlight.

**10.5. Incompatible materials**

Oxygen. Oxidizing agents Alkalis (alkalis). Aluminium. Copper. Copper alloys. Zinc.

**10.6. Hazardous decomposition products**

Carbon monoxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity:**

CAS No.	Chemical name	LD50: oral	Unit	Species	LD50: dermal	Unit	Species	LC50: inhalat iv	Unit	Species
50-81-7	ascorbic acid	11900	mg/kg	rat						

**Irritant and corrosive effects:**

Irritant effect on the skin: slightly irritant but not relevant for classification.

Irritant effect on the eye: slightly irritant but not relevant for classification.

**Sensitisation:**

not sensitising.

**Repeated dose toxicity:**

not determined

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

not determined

**Observations relevant to classification**

No data available

**SECTION 12: Ecological information****12.1. Toxicity****Aquatic toxicity:**

Acute fish toxicity

LC50: Leuciscus idus (golden orfe) 1.000 - 220 mg/l 96 h

Acute Daphnia toxicity

EC50: Daphnia magna 360 mg/l 48 h DIN 38412

Algae toxicity

EC50: Scenedesmus subspicatus 1.750 mg/l 72 h DIN 38412

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Readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential****12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects****General information:**

Do not allow uncontrolled discharge of product into the environment.

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods****Recommendation:**

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

**Contaminated packaging:****Recommendation:**

Non-contaminated packages may be recycled.

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**SECTION 14: Transport information**

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**14.1. Land transport (ADR/RID)****14.2. Inland waterway craft (ADN/ADNR)****14.3. Sea transport (IMDG)****14.4. Air transport (ICAO-TI / IATA-DGR)****14.5. Additional information:**

No dangerous good in sense of these transport regulations.

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**SECTION 15: Regulatory information**

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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Störfallverordnung:**

Unterliegt nicht der StörfallV.

**Water Hazard Class:** 1 **Source:** Anh. 2, Nr.**Other regulations (EU):**

For this substance a chemical safety assessment is not required.

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**SECTION 16: Other information**

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**Further remarks:**

The above information describes exclusively the safety requirements of the product and is based on our present -day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**E-mail (competent person):**

SDB@Eaton.com