

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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L (+) Ascorbic Acid

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

1.1. Product identifier

Trade name/designation:

L (+) Ascorbic Acid

Additional information:

The substance does not require registration according to REACH.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

food and fodder additive

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Additional information:

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

2.3. Other hazards

Adverse physicochemical 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

3.1. Substances

Description:

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

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

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In case of skin contact:

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

IF ON CLOTHING: Change contaminated, saturated clothing.

After 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/doctor/... 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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂), Water spray, Dry extinguishing powder

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

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

Danger of dust explosion.

5.3. Advice for firefighters

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

5.4. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

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

Remove all sources of ignition.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

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

For cleaning up:

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

6.4. Reference to other sections

No data available

6.5. Additional information

No data available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Transfer and handle product only in closed systems. Avoid dust formation. Provide adequate ventilation as well as local exhaust at critical locations.

Fire prevent measures:

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

Packaging materials:

Unsuitable container/equipment material: Aluminium, Copper, Zinc

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool place. Store in a dry place.

Protect against: UV-radiation/sunlight, Contact with air/oxygen

Hints on storage assembly:

Do not store together with: Oxidising agent

Storage class: 11 - Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Do not store at temperatures above 25 °C.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Avoid dust formation.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses

Skin protection:

Protect skin by using skin protective cream.

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)

Breakthrough time (maximum wearing time): > 120 min

Respiratory protection:

Respiratory protection necessary at: Generation/formation of dust

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

Other protection measures:

Protective clothing: lab coat

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

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: crystalline, Powder

Colour: white - light yellow

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	3	20 °C		Gehalt an gelöster Substanz: 5 g/l
Melting point	190 - 192 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	500 - 900 kg/m ³			
Water solubility (g/L)	333 g/l	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

Dust explosibility

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

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.

10.4. Conditions to avoid

Protect against:

Heat, Humidity, UV-radiation/sunlight

10.5. Incompatible materials

Oxygen, Oxidising agent, Alkali (lye), Aluminium, copper, Copper alloys, Zinc

10.6. Hazardous decomposition products

Carbon monoxide

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Rat:

LD50: 11.900 mg/kg

Skin corrosion/irritation:

slightly irritant but not relevant for classification.

Eye damage/irritation:

slightly irritant but not relevant for classification.

Respiratory or skin sensitisation:

not sensitising.

Germ cell mutagenicity:

No information available.

Carcinogenicity:

No information available.

Reproductive toxicity:

No information available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard:

No information 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

12.2. Persistence and degradability

Additional information:

Further ecological information: Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No data available

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

Further ecological information: Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

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Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

Remark:

Unterliegt nicht der StörfallV.

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Source:

Anh. 2, Nr.

Other regulations, restrictions and prohibition regulations

For this substance a chemical safety assessment is not required.

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

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SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

16.6. Training advice

No data available

16.7. Additional information

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.