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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

Identification of the substance	L(+)-Ascorbic Acid ≥99%
Alternative Names	Vitamin C
Article number	CL17612.250
EC number	200-066-2
CAS number	50-81-7
Relevant identified uses	Laboratory chemical Laboratory and analytical use
Uses advised against	Do not use for private purposes (household). Food, drink and animal feedingstuffs.

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classification acc. to GHS	This substance does not meet the criteria for classification
	<b>Label element</b>
Labeling	not required
	<b>Other hazards</b>
Results of PBT and vPvB assessment	According to the results of its assessment, this substance is not a PBT or a vPvB.
Endocrine disrupting properties	Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENT

Name of substance	L(+)-Ascorbic acid
Molecular formula	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
Molar mass	176.1 g/mol
CAS No	50-81-7
EC No	200-066-2

### SECTION 4: FIRST AID MEASURES

In case of eye contact	Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.
In case of skin contact	Rinse skin with water/shower
If swallowed	Rinse mouth. Call a doctor if you feel unwell.
If inhaled	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
Protection of first-aiders	No special measures are necessary.
Notes to physician	None
Most important symptoms and effects, both acute and delayed	Gastrointestinal complaints, Diarrhoea, Irritant effects

## SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media	co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder.
Unsuitable extinguishing media	water jet.
Hazardous combustion products	In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.
Special hazards arising from the substance or mixture	Combustible.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

For non-emergency personnel	No special measures are necessary.
Environmental precautions	Keep away from drains, surface and ground water.
<b>Methods and material for containment and cleaning up</b>	
Advice on how to contain a spill	Covering of drains. Take up mechanically
Advice on how to clean up a spill	Take up mechanically. Control of dust.
Other information relating to spills and releases	Place in appropriate containers for disposal.

## SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	No special measures are necessary.
Specific designs for storage rooms or vessels	Recommended storage temperature: 15 – 25 °C
Advice on general occupational hygiene	Keep away from food, drink and animal feedingstuffs.
Conditions for safe storage, including any incompatibilities	Store in a dry place. Protect from sunlight. May cause decomposition by long-term light influence.
Incompatible substances or mixtures	Observe hints for combined storage.
Protect against external exposure, such as	humidity, high temperatures, UV-radiation/sunlight

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection	Use safety goggle with side protection.
Hand protection	Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
Skin protection	Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.
Respiratory protection	Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Advice on safe handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not breathe dust minimize dust generation and accumulation. Do not get in eyes, on skin, or on
Conditions for safe storage	Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep quantities stored as small as possible. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized

Environmental exposure controls	Keep away from drains, surface and ground water.
other protection measures	Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	solid powder, crystalline
Colour	white
Odor	odourless.
pH	2.4 (in aqueous solution: 50 g/l, 20 °C)
Melting point/freezing point	190 – 192 °C (decomposition)
Water Solubility	~330 g/l at 20 °C
Vapor Pressure	not determined
Decomposition temperature	>190 °C
Bulk density	500 – 900 kg/m <sup>3</sup>
Partition coefficient n-octanol/water (log value)	-1.85 (TOXNET) (exp.)
Density	1.65 g/cm <sup>3</sup>
Refractive index	1.711 (85% aq. soln) 25 °C
Solubility	Soluble in water, slightly soluble in ethanol, insoluble in ether, chloroform, benzene, petroleum ether, oil, fat.
Flammability	this material is combustible, but will not ignite readily
Specific Rotation( $\alpha$ )	21 ° (C=10, H <sub>2</sub> O)

## SECTION 10: STABILITY AND REACTIVITY

Reactivity	The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
Chemical stability	May cause decomposition by long-term light influence.
Possibility of hazardous reactions	<b>Violent reaction with:</b> strong oxidiser, Strong alkali
Conditions to avoid	UV-radiation/sunlight. Keep away from heat. Decomposition takes place from temperatures above: >190 °C.
Incompatible materials	aluminium, copper, zinc
Hazardous decomposition products	Hazardous combustion products: see section 5.

## SECTION 11: TOXICOLOGICAL INFORMATION

Chemical Name	LD50 oral rat	LD50 Dermal mouse
L(+)-Ascorbic Acid	11,900 mg/kg	-
Acute toxicity	Shall not be classified as acutely toxic.	
Skin corrosion/irritation	Shall not be classified as corrosive/irritant to skin.	
Serious eye damage/eye irritation	Shall not be classified as seriously damaging to the eye or eye irritant.	
Respiratory or skin sensitisation	Shall not be classified as a respiratory or skin sensitiser.	
Germ cell mutagenicity	Shall not be classified as germ cell mutagenic	
Carcinogenicity	Shall not be classified as carcinogenic	
Reproductive toxicity	Shall not be classified as a reproductive toxicant.	
Specific target organ toxicity - single exposure	Shall not be classified as a specific target organ toxicant (single exposure)	
Specific target organ toxicity - repeated exposure	Shall not be classified as a specific target organ toxicant (repeated exposure).	
Aspiration hazard	Shall not be classified as presenting an aspiration hazard.	

Symptoms related to the physical, chemical and toxicological characteristics

- **If swallowed** : diarrhoea, gastrointestinal complaints.
- **If in eyes** : causes slight to moderate irritation.
- **If inhaled** : Inhalation of dust may cause irritation of the respiratory system.
- **If on skin** : Frequently or prolonged contact with skin may cause dermal irritation.

Endocrine disrupting properties

Not listed

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Shall not be classified as hazardous to the aquatic environment.

### Aquatic toxicity (acute)

Substance	Value	Species	Endpoint	Exposure time
L(+)-Ascorbic Acid	1,020 mg/l	rainbow trout	LC50	96 h

Mobility in soil

Data are not available.

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Not listed.

Persistence and degradability

Theoretical Oxygen Demand: 0.9084 mg/mg  
Theoretical Carbon Dioxide: 1.499 mg/mg

Bioaccumulative potential

Does not significantly accumulate in organisms.  
n-octanol/water (log KOW) ==> -1.85 (TOXNET) (Exp.)

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: TRANSPORT INFORMATION

UN number

not subject to transport regulations

UN proper shipping name

not assigned

Transport hazard class(es)

not subject to transport regulations

Packing group

not assigned

Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations.

Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

Not subject to transport regulations. UN RTDG

Not subject to transport regulations. UN RTDG

International Maritime Dangerous Goods Code (IMDG) -

Not subject to IMDG.

Additional information

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

- Additional information

The information contained in this safety data sheet has been established on the basis of our knowledge at the date of publication of this document. This information is given only as indicative in order to allow handling, manufacturing, storage, transport, distribution, provision, use and disposal under satisfactory conditions of security, and cannot therefore be interpreted as a guarantee or considered as quality specifications. This information also concerns only the product, namely designated and, unless specifically stated otherwise, may not be applicable when mixed said product with other substances or usable for any manufacturing process. He returns solely for the user to determine the appropriation of materials. The information provided is not intended as a guarantee of the characteristics

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