



L-ASCORBIC ACID

MATERIAL SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Substance

Chemical Name L (+) Ascorbic Acid
Commercial Names and Synonyms Vitamin C
Chemical Abstract Nomenclature

Uses Antioxidant

Company Tel. +39-0321-790-300 (please see bottom of the page)

Emergency service Niguarda Hospital tel. +39-02-6610-1029

2 - COMPOSITION / INFORMATION ON INGREDIENTS

- General description of the components, relative concentrations and risks

Chemical name	N° CAS	N°EINECS	Conc/Range %	Classification	
				Symbols	R phrases
L-Ascorbic Acid	50-81-7	200-066-2			

Formula C₆H₈O₆

The product does not contain any other products and/or impurities that influence the product classification.

3 - HAZARDS IDENTIFICATION

Not dangerous classified substance according to official current regulations.

Health risks None

Environmental risks None

Physical and chemical hazards None
Fire and explosion

4 - FIRST AID MEASURES

Inhalation Move the injured person to open air

Skin contact Wash abundantly with water and soap

Eyes contact Wash immediately under running water for at least 15 minutes keeping eyes open

Ingestion Drink a lot of water

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5 – FIRE-FIGHTING MEASURES

Advised extinguishing agents	Water, carbon dioxide, dry chemicals
Extinguishing agents to be avoided	None
Dangers caused by combustion matters	None
Protection measures in case of intervention	Breathing apparatus
Additional information	Fire residual matters and contaminated extinguishing water shall be disposed of in accordance with local applicable law and regulations

6 – ACCIDENTAL RELEASES MEASURES

Collection and disposal methods	Use mechanical handling equipment
Personal-related safety precautions	No specific equipment is required
Environmental protection	Prevent the introduction of the product into the sewage system or canals

7 – HANDLING AND STORAGE

Handling	When transferring big quantities of the products without using an aspirator, protect the respiratory system. Prevent dust formation. Prevent the accumulation of electrostatic charges
Storage	Store in a dry, cool and well-ventilated place. Keep away from light. Possibly use the containers completely: plastic, glass

8 – PERSONAL PROTECTION / EXPOSURE CONTROL

Respiratory protection	Unknown
Skin protection	Unknown
Hand protection	Safety gloves
Eyes protection	Safety goggles with side screen
Exposure limits	TLV-TWA: unknown, 10 mg/m ³ (irritant dusts)

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9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	physical state	Crystalline - powder
	colour	White
	smell	Odourless
Melting point		190°C (decomposition)
Boiling point		N.A.
Density		700-800 kg/m ³
Solubility in water		> 200 g/L
Flash point		370-375°C
Inflammability limits (vol % in air)		N.A.
Autoignition temperature		N.A.
pH		2.2-2.5 at 50 g/L
Coefficient of division n-octanol/water		

10 – STABILITY AND REACTIVITY

Conditions to be avoided

Products to be avoided

Hazardous decomposition products None under correct operating conditions

11 – TOXICOLOGICAL INFORMATION

Penetration ways	Inhalation	yes
	Ingestion	yes
	Contact	no
Acute toxicity	LD50 (oral, rat):	>10000 mg/kg
Inhalation consequences	Irritation	
Ingestion consequences	Unknown	
Skin local effects	Possibile sensitising effects on people hypersensitive to the product	
Eyes local effects	Irritation	
Additional information	Unknown	

12 – ECOLOGICAL INFORMATION

The product must not be discharged into the sewage system without previous treatment (biological purification plant).

13 – DISPOSAL CONSIDERATIONS

Product	Product residuals to be disposed of according to official current regulations and by an authorized contracting firm (appropriate thermo-destruction plant)
Contaminated packages	Empty the package, unfold it completely and dispose of it according to the material

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14 – TRANSPORT INFORMATION

Product non subject to ADR/RID and IMO regulations, related to road, sea and airway transport of dangerous goods.

15 – REGULATORY INFORMATION

EC labelling	[]	Required by the law
	[]	Temporary
# Classification	[X]	Not required

16 – OTHER INFORMATION

Hazard symbol
Risk phrases

Safety phrases

This material safety data sheet has been issued in accordance with 2001/58/CE.

Before starting the use of this product for any new process or experiment, it must be carried out a deep study on the safety and the compatibility of the product itself with materials it could come in contact with.

The information contained in this safety data sheet is given to protect health and safety at work. No responsibility is taken for possible damages arising from uses of this information for different purposes from the ones here indicated.

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