

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 06/10/2017 Revision date: 18/10/2021 Supersedes version of: 18/10/2021 Version: 2.2

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

1.1. Product identifier	
Product form	: Substance
Trade name	: ASCORBIC ACID
Chemical name	: L-ascorbic acid; Ascorbic acid; 2,3-Didehydro-L-threo-hexono-1,4-lactone; 3-
	Keto-L-gulofuranolactone
EC-No.	: 200-066-2
CAS-No.	: 50-81-7
Type of product	: Acids
Formula	: C6H8O6
Synonyms	: L-xylo-Ascorbic acid; L(+)- Ascorbic acid
Product group	: Trade product
Other means of identification	: E330
REACH authorisation exemptions	: Exempted from REACH registration

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

1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional users only
Use of the substance/mixture	 Antioxidant – Avoids premature oxidation risks, lowers ferric casse risks (complementary to citric acid).
Use of the substance/mixture	: For œnological use
Function or use category	: Preservative

1.2.2. Uses advised against

Restrictions on use

: For use as an additive or processing aid in the food industry

1.3. Details of the supplier of the safety data sheet

Manufacturer

LAMOTHE-ABIET Avenue Ferdinand de Lesseps ZA-ACTIPOLIS 33610 CANEJAN - FRANCE T +33557779292 - F +33556864002 contact@lamothe-abiet.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre	Locked Bag 4001	13 11 26	
	The Children's Hospital at	NSW 2145 Westmead		
	Westmead			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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Canada	Ontario Poison Centre (OPC)	The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto	1-800-268-9017 (416) 813-5900	
Canada	BC Drug and Poison Information Centre (DPIC)	655 West 12th Avenue BC V5Z 4R4 Vancouver	1-800-567-8911 (604) 682-5050	
China	National Poison Control Center	Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing	+86 10 831 32 046	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	Information available 24/7 in Croatian and English
Czech Republic	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Giftlinjen	Bispebjerg Bakke 23 Opgang 20 C 2400 København NV	+45 82 12 12 12	
Georgia	National Toxicology Information Advisory Center	Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi	+995 99 533320	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Japan	Japan Poison Information Center	Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki	+81-29-856-3566 +81-72-727-2499	
Jordan	National Drug & Poison Information Center of Jordan		0798506755 00962-6-5353444	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Kazakhstan	Republican Toxicology Center	Tole-bi 93 480083 Almaty	+7 3272 925 868	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
New Zealand	National Poisons Centre	Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin	0800 764 766 +56 2 2 247 3600	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Russia	Информационно- консультативный центр по токсикология (RTIAC) Министерство здравоохранения Российской Федерации	3 Сухаревская Площадь Блок 7 129090 г. Москва	+7 495 628 1687 (только на русском)	
Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40	
Slovenia	Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL	Zaloška 7 1000 Ljubljana	+386 522 52 83	
South Africa	Tygerberg Poison Information Centre	Division of Clinical Pharmacology Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town	0861 555 777 +56 2 2 247 3600	
Sweden	Giftinformationscentralen	Solna Strandväg 21 171 54 Solna	112 – begär Giftinformation	
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzısıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111
United States of America	American Association of Poison Control Centers	515 King St., Suite 510 VA 22314 Alexandria	1-800-222-1222 +56 2 2 247 3600

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

No labelling applicable

2.3. Other hazards

Component	
L (+) Ascorbic acid - E300 (50-81-7)	The product does not meet the PBT and vPvB classification criteria

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Substance type	: Mono-constituent
Name	: ASCORBIC ACID
CAS-No.	: 50-81-7
EC-No.	: 200-066-2

Name	Product identifier	%
L (+) Ascorbic acid - E300	(CAS-No.) 50-81-7	100
	(EC-No.) 200-066-2	

3.2. Mixtures

Not applicable

SECTION 4: First aid measures 4.1. Description of first aid measures	
First-aid measures general	: If symptoms persist call a doctor.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
First-aid measures after skin contact	: After contact with skin, wash immediately and thoroughly with water and soap. If symptoms persist, call a physician.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects	: More detailed information: See section 11.	

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), powder, alcohol-resistant foam, water spray.
5.2. Special hazards arising from the subs	stance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus. Complete protective clothing.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Other information	: Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations.	
SECTION 6: Accidental release mea		
6.1. Personal precautions, protective e	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.	
Measures in case of dust release	: Avoid dust formation.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For	
	further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Do not flush into surface water or sewer system.		

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Mechanically recover the product. Contain leaking substance, pump over in	
	suitable containers. Clean contaminated surfaces with an excess of water.	
Other information	: Dispose of materials or solid residues at an authorized site.	

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage 7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from ignition sources (including static discharges).	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Keep only in the original container.	
Storage conditions	: Keep container tightly closed to prevent moisture pick-up. Store in a dry, cool place. Keep out of direct sunlight.	
Incompatible products	: May react with aluminium. Metals.	
Incompatible materials	: May react with aluminium. Metals.	
Heat and ignition sources	: Keep away from ignition sources (including static discharges).	

7.3. Specific end use(s)

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8. Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:			
Safety glasses			
Туре	Field of application	Characteristics	Standard
Safety glasses	Dust		EN 166

8.2.2.2. Skin protection

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Skin and body protection:		
Wear suitable protective clothing		
Туре	Standard	
Chemically resistant protective gloves	EN 374	

Hand protection:					
Protective gloves. Nitrile rubber gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.3		EN ISO 374

Other skin protection
Materials for protective clothing:
acid resistant clothing

8.2.2.3. Respiratory protection

Respiratory protection:	
EN 145. Wear suitable respiratory equipment in case of insufficient ventilation	

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not allow into drains or water courses. Avoid release to the environment.

Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: white.	
Appearance	: Crystals.	
Odour	: Product (article) characteristics.	
Odour threshold	: Not available	
Melting point	: ≈ 191 °C 1.013 hPa	
Freezing point	: Not applicable	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: Not available
pH solution	: ≈ 3 5g/L - 20°C
Viscosity, kinematic	: Not applicable
Solubility	: Water: ≈ 333 g/l 20°C
Partition coefficient n-octanol/water (Log	: Not available
Kow)	
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: ≈ 1,665 g/cm ³ 20°C
Relative density	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to	physical hazard classes
Critical temperature	: > 380 °C 1.013 hPa

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

May liberate toxic gases. Carbon oxides (CO, CO2).

SECTION 11: Toxicological info	rmation
11.1. Information on hazard classe	es as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

L (+) Ascorbic acid - E300 (50-81-7)	
LD50 oral rat	≈ 11900 mg/kg bodyweight
LD50 oral	≈ 3367 mg/kg bodyweight Mouse

Skin corrosion/irritation	: May be slightly irritating to skin and eyes
Serious eye damage/irritation	: May be slightly irritating to skin and eyes
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

L (+) Ascorbic acid - E300 (50-81-7)		
NOAEL (chronic, oral, animal/male, 2 years)		> 2000 mg/kg bodyweight
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

ASCORBIC ACID (50-81-7)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 12: Ecological information 12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long- term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

L (+) Ascorbic acid - E300 (50-81-7)	
LC50 - Fish [1]	≈ 1020 mg/l (Oncorhynchus mykiss - Truite arc en ciel)

12.2. Persistence and degradability	
L (+) Ascorbic acid - E300 (50-81-7)	
Persistence and degradability	Biodegradable. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

12.3. Bioaccumulative potential	
L (+) Ascorbic acid - E300 (50-81-7)	
Partition coefficient n-octanol/water (Log Kow)	≈ -2,15 (23°C)
Bioaccumulative potential	There is no bioaccumulation.

12.4. Mobility in soil

L (+) Ascorbic acid - E300 (50-81-7)	
Ecology - soil	Soluble in water.
Additional information	Not volatile

12.5. Results of PBT and vPvB assessment	
Component	
L (+) Ascorbic acid - E300 (50-81-7)	The product does not meet the PBT and vPvB classification criteria
12.6 Endocrino discupting proportion	

12.0. Endocrine disrupting properties	
No additional information available	

12.7. Other adverse effects	
Other adverse effects	: Do not allow to enter drains or water courses

SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Product/Packaging disposal recommendations

: Empty remaining contents. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number		
UN-No. (ADR)	: Not regulated	
UN-No. (IMDG)	: Not regulated	
UN-No. (IATA)	: Not regulated	
UN-No. (ADN)	: Not regulated	
UN-No. (RID)	: Not regulated	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not regulated	
Proper Shipping Name (IMDG)	: Not regulated	
Proper Shipping Name (IATA)	: Not regulated	
Proper Shipping Name (ADN)	: Not regulated	
Proper Shipping Name (RID)	: Not regulated	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: Not regulated	
IMDG		
Transport hazard class(es) (IMDG)	: Not regulated	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not regulated	
ADN		
Transport hazard class(es) (ADN)	: Not regulated	
RID		
Transport hazard class(es) (RID)	: Not regulated	
14.4. Packing group		
Packing group (ADR)	: Not regulated	
Packing group (IMDG)	: Not regulated	
Packing group (IATA)	: Not regulated	
Packing group (ADN)	: Not regulated	
Packing group (RID)	: Not regulated	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: No	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.6. Special precautions for user

Overland transport Not regulated Transport by sea Not regulated Air transport Not regulated Inland waterway transport Not regulated Rail transport Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ASCORBIC ACID is not on the REACH Candidate List

ASCORBIC ACID is not on the REACH Annex XIV List

ASCORBIC ACID is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

ASCORBIC ACID is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 737)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Borstvoeding	
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Ontwikkeling	
Switzerland	
Storage class (LK)	: NG - Non-hazardous

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information					
Indication of changes:					
Revision - See : *.					
Section	Changed item	Change	Comments		
3.1	Composition/information on ingredients	Modified			
15.2	Chemical safety assessment	Modified			

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.