

SAFETY DATA SHEET

Creation Date 23-Sep-2009

Revision Date 14-Feb-2020

Revision Number 2

1. Identification

Product Name

L-(+)-Ascorbic acid

Cat No. :

A15613

CAS-No Synonyms 50-81-7 Vitamin C; 3-Keto-L-glucofuranolactone; Ascorbic acid

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3.	Comp	osition	Information o	n Ingredients
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Component	CAS-No	Weight %	
L-Ascorbic acid	50-81-7	>95	

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical at immediately if symptoms occur.				
Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Vater spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foar	۱.
	Vater spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	660 °C / 1220 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 1	Flammability 1	Instability 1	Physical hazards N/A	
		6. Accidental rel	ease measures		
Personal Precautions		Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.			
Environmental Precautions		Should not be released into	the environment.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid
	contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality. Protect from light. Store under an inert atmosphere.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid	
Appearance	Light yellow	
Odor	Odorless	
Odor Threshold	No information available	
pH	2.1 - 2.6 (5 %)	
Melting Point/Range	190 °C / 374 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	1.65	
Solubility	Soluble in water	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	660 °C / 1220 °F	
Decomposition Temperature	No information available	
Viscosity	Not applicable	
Molecular Formula	C6H8O6	
Molecular Weight	176.13	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Air sensitive. Light sensitive.
Conditions to Avoid	Incompatible products.

Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information

omponent Informa					1.050	Inholotion	
Component		LD50 Oral LD50 = 11900 mg/kg (F		LD50 Dermal Not listed		LC50 Inhalation Not listed	
L-Ascorbic acid LD		LD30 = 11900 mg/kg (1)	Nat)	NULIISLEU		JI IISIEU	
oxicologically Syn	ergistic	No information ava	ilable				
roducts	-						
elayed and immed	iate effects a	s well as chronic effe	cts from short ar	d long-term expo	osure		
ritation		No information ava	ilable				
ensitization		No information ava	ilable				
arcinogenicity		The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinoge	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
L-Ascorbic acid	50-81-7	Not listed	Not listed	Not listed	Not listed	Not listed	
utagenic Effects		No information ava	ailable				
eproductive Effect	S	No information ava	No information available.				
Developmental Effects		No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects,both acute and delayed		Ind No information ava	1 No information available				
Endocrine Disruptor Information		No information ava	No information available				
Other Adverse Effects		The toxicological p	The toxicological properties have not been fully investigated.				
		12 Ecol	ogical infor	mation			
		12. ECOIL	Jyical IIIO				

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
DOT TDG IATA	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
L-Ascorbic acid	50-81-7	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
L-Ascorbic acid	50-81-7	Х	-	200-066-2	Х	Х	Х	Х	KE-01947

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	23-Sep-2009 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 50-81-7.

Disclaimer

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End of SDS