

SAFETY DATA SHEET

Creation Date 03-Jun-2014	Revision Date 30-May-2017	Revision Number 2	
	1. Identification		
Product Name	L(+)-Ascorbic acid		
Cat No. :	AC401470000; AC401470025; AC401470050; AC401471000; AC401475000		
Synonyms	Vitamin C		
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the sat	iety data sheet		
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		
Emergency Telephone Number	ACROS-01 / Europe call: +32 14 57 52 11		

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

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. Composition / information on ingredients

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.

	Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically

5. Fire-fighting measures

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
No information available
No information available No information available
380 °C / 716 °F
No data available
No data available
t No information available
No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

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.

NFPA Health 1	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.		
Environmental Precautions	Avoid release to the environment.		
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid due formation.		ontainer for disposal. Avoid dust	
	7. Handling	and storage	

Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Store under an inert atmosphere.

8. Exposure 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	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
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

J	· · ·
Physical State	Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
pН	2.1-2.6 5% aq. soln
Melting Point/Range	190 - 192 °C / 374 - 377.6 °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	No information available
Solubility	333 g/L (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	380 °C / 716 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H8 O6
Molecular Weight	176.13

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Air sensitive. Light sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to light.
Incompatible Materials	Strong oxidizing agents, Metals, copper
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)	

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

	ation						
Component		LD50 Oral	5)	LD50 Dermal		LC50 Inhalation	
L-Ascorbic a	CID	LD50 = 11900 mg/kg (Rat)	Not listed	No	Not listed	
oxicologically Syr	ergistic	No information ava	No information available				
roducts							
elayed and immed	liate effects	as well as chronic effe	ects from short a	nd long-term expo	osure		
rritation		No information ava	ailable				
		No information ave					
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen	
Component	CAS-No	D IARC	NTP	ACGIH	OSHA	Mexico	
L-Ascorbic acid	50-81-7	7 Not listed	Not listed	Not listed	Not listed	Not listed	
Iutagenic Effects		No information ava	ailable				
Reproductive Effec	ts	No information ava	ailable.				
Developmental Effe	ects	No information ava	ailable.				
eratogenicity		No information ava	ailable.				
STOT - single exposure		None known	None known				
TOT - repeated ex		None known					
spiration hazard		No information ava	No information available				
Symptoms / effects lelayed	s,both acute	and No information ava	d No information available				
Indocrine Disrupto	or Informatio	n No information ava	No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.					

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Soluble in water. Persistence is unlikely based on information available.		
Bioaccumulation/ Accumulation	No information available.		
Mobility	Will likely be mobile in the environment due to its water solubility.		
	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	
TDG	Not regulated	
DOT TDG IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

International Inventories

L-Ascorbic acid X X - 200-066-2 - X X X				NDSL			NLP	PICCS	ENCS	AICS	IECSC	KECL
	L-Ascorbic acid	Х	Х	-	200-066-2	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	zard	No No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and Health Not applicable	n Administration	
CERCLA Not applicable		
California Proposition 65	This product does not cor	ntain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transportation		
Reportable Quantity (RQ): DOT Marine Pollutant	N N	

DOT Severe Marine Pollutant

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

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Other International Regulations

Mexico - Grade	No information available				
	16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com				
Creation Date Revision Date Print Date Revision Summary	03-Jun-2014 30-May-2017 30-May-2017 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).				

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS