

SAFETY DATA SHEET

Creation Date 23-Sep-2009	Revision Date 18-Jan-2018	Revision Number 5		
	1. Identification			
Product Name	L-Ascorbic acid			
Cat No. :	A61-100; A61-25; A62-12; A62-25; A62-212; A6 EK1173087	62-500; BP351-500;		
CAS-No Synonyms	50-81-7 Vitamin C; 3-Keto-L-glucofuranolactone; Ascorbic acid			
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use			
Details of the supplier of the safe	ety data sheet			
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100				

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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. Get 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. 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	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable Extinguishing Media No information available Flash Point Method No information available No information available

Autoignition Temperature 660 °C / 1220 °F Explosion Limits

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	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.

NFPA

Health	Flammability 1	Instability 1	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment.					

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and 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.

3	3. 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	None under normal use conditions.
Personal Protective Equipmen	nt
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

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Solid Light yellow Odorless No information available 2.1 - 2.6 (5 %) 190 °C / 374 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable 1.65 Soluble in water No data available 660 °C / 1220 °F No information available Not applicable C6H8O6 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 Products 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 Component Information							
Componer		LD50 Oral		LD50 Dermal	1 C 50 1	nhalation	
L-Ascorbic a		D50 = 11900 mg/kg (Not listed		listed	
Toxicologically Syn Products	ergistic	No information ava	ailable		I		
Delayed and immed	liate effects as v	vell as chronic effe	cts from short an	<u>id long-term expo</u>	sure		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient a	s a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
L-Ascorbic acid	50-81-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information ava	ailable.				
Developmental Effe	ects	No information ava	ailable.				
Teratogenicity No information available.							
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard No information available							
Symptoms / effects delayed	ms / effects,both acute and No information available						
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					
		12. Ecolo	ogical infor	mation			
Ecotoxicity							
Persistence and Degradability No information available							
Bioaccumulation/ A	ccumulation	tion No information available.					
Mobility		No information available.					
		13. Dispo	sal conside	erations			
Waste Disposal Met	thods	Chemical waste ge hazardous waste.	enerators must det Chemical waste g	ermine whether a generators must als	discarded chemical so consult local, reg te and accurate cla	ional, and	

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

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	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	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health Not applicable	Administration
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	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	23-Sep-2009 18-Jan-2018 18-Jan-2018 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