

# **SAFETY DATA SHEET**

Creation Date 23-September-2009 Revision Date 18-January-2018 Revision Number 5

1. Identification

Product Name L-Ascorbic acid

Cat No.: A61-25, A61-100

**CAS-No** 50-81-7

Synonyms Vitamin C; 3-Keto-L-glucofuranolactone; Ascorbic acid

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada

Tel: 1-800-234-7437

Manufacturer

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

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

## Other Hazards

Light sensitive

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %		
L-Ascorbic acid	50-81-7	>95		

## 4. First-aid measures

**Eve Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention **Skin Contact** 

immediately if symptoms occur.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Clean mouth with water and drink afterwards plenty of water. Get medical attention if Ingestion

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

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** No information available Method -No information available

660 °C / 1220 °F **Autoignition Temperature** 

**Explosion Limits** 

Upper No data available No data available Lower 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	Instability	Physical hazards
1	1	1	N/A

### Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. **Environmental Precautions** 

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. Up

# 7. Handling and storage

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, Handling

eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage** 

To maintain product quality. Protect from light. Store under an inert atmosphere.

### 8. Exposure controls / personal protection

#### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Engineering Measures**

None under normal use conditions.

#### Personal protective equipment

**Eye 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.

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

Г	Glove material	Breakthrough time	Glove thickness	Glove comments
	Butyl rubber	See manufacturers	-	Splash protection only
		recommendations		

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

# 9. Physical and chemical properties

Physical StateSolidAppearanceLight yellowOdorOdorless

Odor Threshold<br/>pHNo information available<br/>2.1 - 2.6 (5 %)Melting Point/Range190 °C / 374 °FBoiling Point/RangeNo information availableFlash PointNo information available

Flash Point

Evaporation Rate

Flammability (solid,gas)

No information available
No information available
No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific Gravity 1.65

SolubilitySoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition Temperature660 °C / 1220 °F

#### L-Ascorbic acid

**Decomposition Temperature**No information available

ViscosityNot applicableMolecular FormulaC6H8O6Molecular Weight176.13

# 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** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
L-Ascorbic acid	LD50 = 11900 mg/kg (Rat)	Not listed	Not listed		

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

	Component CAS-No		IARC	ARC NTP ACGII		ACGIH OSHA	
	L-Ascorbic acid	50-81-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

.

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	Not regulated					
<u>IATA</u>	Not regulated					
IMDG/IMO	Not regulated					
	<del>-</del>					

# 15. Regulatory information

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

#### **International Inventories**

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
L-Ascorbic acid	Х	-	Х	200-066-2	-		Х	Х	Х	Х	Χ

### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

## 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Creation Date23-September-2009Revision Date18-January-2018Print Date18-January-2018

**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

#### **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**