Material Safety Data Sheet

Section 1: Chemical Product Company Identification	
Product Name	L-Ascorbic Acid
CAS No.	50-81-7
Identified uses	Pharmaceutical Reference Standard
Details of the Supplier Company	SynZeal Research Pvt Ltd Plot No. F, Ganesh Industrial Estate 423/24/8, MahagujaratInd Estate Sarkhej-Bavla Road, Ahmedabad-382 213. Gujarat, India.
Telephone	+91-7969225400

Section 2: Chemical Information	
Chemical Name	(R)-5-((S)-1,2-dihydroxyethyl)-3,4-dihydroxyfuran-2(5H)-one
CAS No.	50-81-7
Molecular Weight	176.1
Molecular Formula	C6H8O6

Section 3: Hazards Identification		
Emergency Overview:		
Appearance	White Solid	
Target Organs	NA	
Potential Health Effects:		
Eye	NIL	
Skin	NIL	
Ingestion	NIL	
Inhalation	NIL	
Chronic	NIL	

Section 4: First Aid Measures	
Eye	Wash with plenty of water
Skin	Wash with plenty of water

Ingestion Medical assistance for gastric lavage. Inhalation Remove to fresh air, artificial respiration or oxygen if necessary. Notes to Physician Laboration Acid can be weathed with plenty of water in case of any expourse Section 5: Firefighting Measures Extinguishing Media Carbon dioxide, dry chemical powder, foam, water. Unusual Fire and Explosion Hazards None indicated Section 6: Accidental Release Measures Personal Procautions Wear self-contained breathing apparatus, avoid dust formation. Spillo/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus Exposure Limits NA Exposure Limits NA Exposure Limits NA Sey Protection Wear safety geggles Other Protective Equipment Protection Full sleeves apron Clothing Cotton Cotton Cotton White Solid Odor Odor less Melting Point NA Melting Point NA Vapor Pressure NA Vapor Density NA Viscosity NA		 		
Description Scripting Measures	Ingestion	Medical assistance for gastric lavage.		
Section 5: Firefighting Measures Extinguishing Media Carbon dioxide, dry chemical powder, foam, water. Unusual Fire and Explosion Hazards None indicated Section 6: Accidental Release Measures Personal Precautions Wear self-contained breathing apparatus, avoid dust formation. Spills/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protection Self-contained breathing apparatus Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protection Self-contained breathing apparatus Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protection Clothing Cotton Clothon Odor White Solid Odor Odor less Melting Point NA PH Basic Vapor Pressure NA Vapor Density NA Eyaporation Rate NA Eyaporation Rate NA	Inhalation	Remove to fresh air, artificial respiration or oxygen if necessary.		
Extinguishing Media Carbon dioxide, dry chemical powder, foam, water. Unusual Fire and Explosion Hazards None indicated Section 6: Accidental Release Measures Personal Precautions Wear self-contained breathing apparatus, avoid dust formation. Spills/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective Equipment Protective Equipment Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA PH Basic Vapor Pressure NA Vapor Perssure NA Evaporation Rate NA Evaporation Rate	Notes to Physician			
Unusual Fire and Explosion Hazards Section 6: Accidental Release Measures Personal Precautions Wear self-contained breathing apparatus, avoid dust formation. Spills/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus NA Eye Protection Wear safety goggles Other Protective Equipment Protective Equipment Protective Equipment Skin Full sleeves apron Cotton Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA PH Basic Vapor Pressure NA Vapor Density NA Exporation Rate	Section 5: Firefighting Measures			
Section 6: Accidental Release Measures Personal Precautions Wear self-contained breathing apparatus, avoid dust formation. Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Section 8: Exposure Controls, Personal Protection Sespiratory Protection Sephysical and Chemical Properties Appearance Odor Odor less Melting Point Ph Basic Vapor Pressure NA Evaporation Rate NA Section 9: Accidental Release Measures Wear self-contained breathing apparatus Self-contained breathing apparatus Na Wear safety goegles City of Contained Breathing apparatus Na Wear safety goegles Other Protective Equipment Protective clothing Skin Full sleeves apron Cotton	Extinguishing Media	Carbon dioxide, dry chemical powder, foam, water.		
Personal Precautions Wear self-contained breathing apparatus, avoid dust formation. Spills/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus NA Eye Protection Wear safety goggles Other Protective Equipment Protective clothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Even Table 10	Unusual Fire and Explosion Hazards	None indicated		
Spills/Leaks Wash with plenty of water, provide adequate ventilation. Section 7: Handlings and Storage Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective Equipment Protective Lothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA PH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Section 6: Accidental Release Measures			
Section 7: Handlings and Storage Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective clothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Personal Precautions	Wear self-contained breathing apparatus, avoid dust formation.		
Handling Wear surgical gloves Storage Can be stored at room temperature Section 8: Exposure Controls, Personal Protection Respiratory Protection Self-contained breathing apparatus Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective Equipment Protective Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Perssure NA Vapor Density NA Even Davis Self-contained breathing apparatus Self-contained breathing apparatus Self-contained breathing apparatus Self-contained breathing apparatus NA Wear safety goggles NA Self-contained breathing apparatus NA Wear safety goggles NA Wear safety goggles Odor Odor Protective Cotton NA NA NA NA	Spills/Leaks	Wash with plenty of water, provide adequate ventilation.		
Section 8: Exposure Controls, Personal Protection Respiratory Protection Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective Limits Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA PH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate Can be stored at room temperature Can be stored at room temperature Appearatus Self-contained breathing apparatus NA Wear safety goggles Cotton Wear safety goggles Odor Wear safety goggles Odorless Full sleeves apron Cotton	Section 7: Handlings and Storage			
Section 8: Exposure Controls, Personal Protection Respiratory Protection Exposure Limits NA Eye Protection Wear safety goggles Other Protective Equipment Protective clothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point PH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA NA Section 9: Physical And Chemical Properties NA NA NA NA NA NA NA NA NA N	Handling	Wear surgical gloves		
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Eye Protection Wear safety goggles Other Protective Equipment Protective Cothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate Na Protective clothing Wear safety goggles Wear safety goggles Wear safety goggles Wear safety goggles Na Full sleeves apron Odor Odor Author Full sleeves apron Odor Odor NA NA NA NA NA NA NA NA NA N	Respiratory Protection	Self-contained breathing apparatus		
Other Protective Equipment Protective clothing Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Exposure Limits	NA		
Skin Full sleeves apron Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate Full sleeves apron Full sleeves apr	Eye Protection	Wear safety goggles		
Clothing Cotton Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Other Protective Equipment	Protective clothing		
Section 9: Physical and Chemical Properties Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Skin	Full sleeves apron		
Appearance White Solid Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Clothing	Cotton		
Odor Odor less Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Section 9: Physical and Chemical Properties			
Melting Point NA pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Appearance	White Solid		
pH Basic Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Odor	Odor less		
Vapor Pressure NA Vapor Density NA Evaporation Rate NA	Melting Point	NA		
Vapor Density NA Evaporation Rate NA	рН	Basic		
Evaporation Rate NA	Vapor Pressure	NA		
	Vapor Density	NA		
Viscosity	Evaporation Rate	NA		
	Viscosity	NA		

Boiling Point	NA	
Decomposition Temp	NA	
Auto ignition Temp.	NA	
Flash Point	NA	
NFPA Rating	NA	
Explosion Limits		
Lower	NA	
Upper	NA	
Solubility	Chloroform, Methanol	
Specific Gravity/Density	NA	

Section 10: Stability and Reactivity		
Chemical Stability Stable		
Conditions to avoid	Direct contract to skin	
Incompatibilities with other Materials	Keep away	
Hazardous Decomposition Products	NIL	
Hazardous Polymerization	NIL	

Section 11: Toxicological Information		
CAS	NA	
LD50/LC50	NA	
Carcinogenicity	NIL	
Epidemiology	NIL	
Teratogenicity	NIL	
Reproductive Effects	NIL	
Neurotoxicity	NIL	
Mutagencity	NIL	
Other Studies	NA	

Section 12: Ecological Information	
Data not available	

RCRA P-Series	Can be incinerated
RCRA U-Series	NA

Section 14: Transport Consideration

UN-Number

ADR/RID: IMDG: IATA:

UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: IMDG: IATA:

Packaging Group

ADR/RID: IMDG: IATA:

Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: No

Special precautions for users

Further information

Section	15:	Regulator	v Inforn	nation
Section	TJ.	regulator	y 1111011	nation

TSCA	Attached the letter
Health and Safety Reporting List	No data available
Chemical Test Rules	Chemical analysis report is attached

Section 16: Additional Information

 $This \ product \ is \ not \ bioactive, \ non-radio active. \ It \ is \ for \ R/D \ use \ only. \ Not \ for \ drug, \ household \ or \ other \ uses.$

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge. It does not represent any guarantee of the product.