

#### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME	ASCORBIC ACID, USP/EP	
PRODUCT CODE	0634	
SUPPLIER	MEDISCA Inc.   Tel.: 1.800.932.1039   Fax.: 1.855.850.5855   661 Route 3, Unit C, Plattsburgh, NY, 12901   6641 N. Belt Line Road, Suite 130, Irving, TX, 75063   MEDISCA Pharmaceutique Inc.   Tel.: 1.800.665.6334   Fax.: 514.338.1693   4509 Rue Dobrin, St. Laurent, QC, H4R 2L8   21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2   MEDISCA Australia PTY LTD   Tel.: 1.300.786.392   Fax.: 61.2.9700.9047   Unit 7, Heritage Business Park   5-9 Ricketty Street, Mascot, NSW 2020	
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670	
RECOMMENDED USES	Manufacturing and Compounding	
RESTRICTIONS ON USE	Not applicable	

### **SECTION 2: HAZARDS IDENTIFICATION**

GHS CLASSIFICATION	Based on available	e data, the classification c	riteria are not met.					
PICTOGRAM	Not Applicable							
SIGNAL WORD	Not applicable	lot applicable						
HAZARD STATEMENT(S)	Not applicable							
ADVERSE PHYSIOCHEMICAL, HUMAN	Not applicable							
HEALTH AND ENVIRONMENTAL EFFECTS								
PRECAUTIONARY STATEMENT(S)	Prevention Not applicable							
	Response	Response Not applicable						
	Storage Not applicable							
	Disposal	Not applicable						
HMIS CLASSIFICATION	Health Hazard	1	Flammability	0				
	Reactivity	0	Personal Protection	В				

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	L-Ascorbic acid						
BOTANICAL NAME	Not applicable						
SYNONYM	Vitamin C						
CHEMICAL FORMULA	C6H8O6						
CHEMICAL FAMILY	Carboxylic acid derivative.						
CAS NUMBER	50-81-7						
ALTERNATE CAS NUMBER	Not applicable						
MOLECULAR WEIGHT	176.12						
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT			
	ASCORBIC ACID	50-81-7	200-066-2	100			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

### SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.

### **SECTION 5: FIREFIGHTING MEASURES**

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable.
FLAMMABLE PROPERTIES	May be combustible at high temperature.
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	Small fire: dry chemical, CO <sub>2</sub> or water spray. Large fire: dry chemical, CO <sub>2</sub> , alcohol resistant foam or water spray. Do not get water inside containers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
NOTES	Dust explosion properties Kst: 122 bar.m/s Minimum ignition energy (MIE) – dust cloud : 25 mJ Potential for dust explosion: Moderate explosion severity.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.



METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers. Minimize generation of dust.				
CLEANUP PROCEDURE	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.				
REFERENCE TO OTHER SECTIONS	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.				
	SECTION 7: HANDLING AND STORAGE				
PRECAUTIONS FOR SAFE HANDLING	Do not inhale. Avoid contact with eves, skin and clothing. Avoid prolonged or repeated exposure. Wash				

CONDITIONS FOR SAFE STORAGE	thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.			
	Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.			

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight and moisture.

### SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

	Country	Country Limit valu		Limit value	-Short Term	IDLH	H REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ISIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ISE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

#### Chemical Name: ASCORBIC ACID CAS #: 50-81-7

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

**EXPOSURE GUIDELINES** 

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

#### PERSONAL PROTECTIVE EQUIPMENT

fraction: 5 mg/m<sup>3</sup>

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.



SPECIFIC ENGINEERING CONTROLS BIOLOGICAL MONITORING CONTROL BANDING NOTES Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower. Not available USP: ELV: Industrial: TWA 10 mg/m<sup>3</sup>

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid								
DESCRIPTION		White or slightly yellow crystals or powder. On exposure to light it gradually darkens. In the dry state, is reasonably stable in air, but in solution it rapidly oxidizes.							
SOLUBILITY	Freel	y soluble in water; sp	aringly soluble in alcohol; insoluble	e in chloroform, in eth	er, and in benzene.				
ODOR	Odor	less or almost odorles	SS.						
FLAMMABILITY	May I	be combustible at hig	h temperature						
AUTO-IGNITION TEMPERATURE		660°C, 1220°F	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	>190°C, 374°F			
EVAPORATION RATE	I	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available			
log P (OCTANOL-WATER)		-2.15	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	>190°C, 374°F (decomposes)			
PARTICLE CHARACTERISTICS		Not available	OXIDIZING PROPERTY	Not available	рH	2.1 - 2.6 (5%)			
RELATIVE DENSITY (WATER = 1)		Not available	SPECIFIC GRAVITY	1.65	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available			
VAPOR DENSITY (AIR = 1)		Not available	VAPOR PRESSURE	< 0.0000001 kPa (25°C)	VISCOSITY	Not available			

The physical data presented above are typical values and should not be construed as a specification.

### SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established.
CHEMICAL STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE MATERIALS	Strong oxidants. Alkalies. Iron. Copper. Strong bases. Metals.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.
HAZARDOUS POLYMERIZATION	Will not occur.
POSSIBLITY OF HAZARDOUS REACTION	Not established.
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures.



### SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Dermal: Rabbit	0: (mg/kg): 11900 t: LD50: (mg/kg): Not available			
		: LC50: (mg/L/4hr): Not available			
SKIN CORROSION/IRRITATION	Based on available data, the classification criteria are not met. Irritancy test: Result: Non-irritant. Species: Rabbit; Organ: Skin				
SERIOUS EYE DAMAGE/EYE IRRITATION		able data, the classification criteria are not met. Result: Non-irritant. Species: Rabbit; Organ: Eyes			
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.				
SKIN SENSITIZATION	Due to lack of d	lata the classification is not possible.			
GERM CELL MUTAGENICITY		data the classification is not possible. otoxicity tests are mixed. Results of genotoxicity tests in vivo are negative. No tests in germ cells.			
CARCINOGENICITY	OSHA	ASCORBIC ACID is not listed.			
	NTP	ASCORBIC ACID is not listed.			
	IARC	ASCORBIC ACID is not evaluated.			
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.			
ADDITIONAL CARCINOGENICITY INFORMATION	Based on avail	able data, the classification criteria are not met.			
REPRODUCTIVE TOXICITY	Based on avail	able data, the classification criteria are not met.			
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Based on available data, the classification criteria are not met.				
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Based on available data, the classification criteria are not met.				
ASPIRATION HAZARDS	Based on available data, the classification criteria are not met.				
SIGNS AND SYMPTOMS OF EXPOSURE	Not available DELAYED HEA	EXPOSURE: T SYMPTOMS RELATED TO EXPOSURE: ALTH EFFECT FROM EXPOSURE: bendence. Withdrawal scurvy. Kidney stones.			
	Not expected to present a significant hazard under anticipated conditions of normal use.				
	Symptoms related to the physical, chemical, and toxicological characteristics: Nausea. Vomiting. Diarrhea. Cramps. Flushing. Headache. Lower back or side pain. Increased urination.				
	Cross sensitivity: Persons sensitive to sodium ascorbate may be sensitive to this material also.				
		ions aggravated by exposure: Iron overload conditions. G6PD deficiency. Vitamin B12 deficiency.			
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.			
	Ingestion	May be harmful if swallowed. May cause mild digestive tract irritation.			
	Skin	May be harmful if absorbed through skin. May cause skin irritation.			
	Eyes	May cause transient eye irritation.			



### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	EC50: 48 Hr: Crustacea: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available	
PERSISTENCE AND DEGRADABILITY	Not available	
BIOACCUMULATIVE POTENTIAL	Low: LogPow: -2.15	
MOBILITY IN SOIL	Water solubility: 333 g/L (20°C) 4.00E+05 mg/L (40°C) Henry's Law Constant: 4.07E-08 atm-m³/mole (25°C)	
OTHER ADVERSE EFFECTS	Not available	
	This product is not intended to be released into the environment.	

### SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS** 

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

### SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME	Not dangerous good
UN NUMBER	Not applicable
CLASS	Not applicable
PACKING GROUP	Not applicable
AUSTRALIA	
HAZCHEM	Not applicable
EU	
TRANSPORT IN BULK ACCORDING TO	Not listed
ANNEX II OF MARPOL 73/78 AND THE IBC CODE	
IDO CODE	
ENVIRONMENTAL HAZARDS	Not available
SPECIAL SHIPPING INFORMATION	Not applicable

# SECTION 15: REGULATORY INFORMATION

#### UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
ASCORBIC ACID 50-81-7	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed



#### AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ASCORBIC ACID 50-81-7	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

#### EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ASCORBIC ACID 50-81-7	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL AGREEMENT

Not applicable

### **SECTION 16: OTHER INFORMATION**

REFERENCES	Available upon request
ABBREVIATIONS AND ACRONYMS	ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS – Chemical Abstract Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; EC50 – Effective Concentration, 50%; EPA – Environmental Protection Agency; GHS – Global Harmonized System; HMIS – Hazardous Materials Information System; HSE – Health and Safety Executive; HSIS – Hazardous Substances Information System; IARC – International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN – Ready Biodegradability Model; ISS – Instituto Superiore Sanità; LC50 – Lethal Concentration, 50%; LD50 – Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; QSAR – Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA – Superfund Amendments and Reauthorization Act; STEL – Short Term Exposure Limit; TLV – Threshold Limit Value; TWA – Time Weighted Average; WHMIS – Workplace Hazardous Materials Information System
LAST REVISION	01/2023
SUPERSEDES	07/2021
	For a list of changes to the SDS since the last version, please communicate with MEDISCA at <a href="http://www.medisca.com">www.medisca.com</a>
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