

WARD'S

MATERIAL SAFETY DATA SHEET

Natural Science Establishment, Inc.
 P.O. Box 2502
 Rochester, NY 14692-9012
 (716) 359-2502


Ward's Natural Science Establishment, Ltd.
 1840 Malvern Avenue
 Mississauga, Ontario L4X 1K1

MSDS No. AA 425
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SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

Product L-ASCORBIC ACID
Chemical Synonyms Vitamin C
Formula HOCH₂CH(OH)CH(OH):C(OH)COO
Units Size 10 grams to 2.5 Kg.
C.A.S. No. 50-81-7

	CHEMTREC 800-424-9300		Health	1
	Du: 716-326-6177 Npn: 716-334-4222		Fire	1
NFPA HAZARD RATING		Reactivity	0	
		LEAST	SLIGHT	MODERATE
		1	2	3
				4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Ascorbic Acid	100%	None established.
Low Hazard Material.		

SECTION III PHYSICAL DATA

Melting Point (°F)	190-192°C.	Specific Gravity (4.0 = 1)	1.65.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate	(= 1) Not applicable.
Vapor Density (Air = 1)	Unknown.		
Solubility in Water	30% by weight at 20°C.		
Appearance and Odor	White to slightly off-white granular powder or crystals. Nearly odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Ignition temp. 560°C	Flammable Limits in Air	
		% by Volume (g/cc-ft.)	Lower
		10	20

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Weak (Bureau of Mines Relative Explosion Hazard Ratings.)

D.O.T. NON-REGULATED.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

None established.

Effects of Overexposure

No adverse clinical findings have been reported at dose levels of 900mg per day or less, orally in man. May be a mild eye, skin or respiratory irritant.

Emergency and First Aid Procedures

SKIN AND EYES: In case of contact with skin or eyes, flush thoroughly with water. For eyes get medical attention. **INGESTION:** Drink large quantities of water to combat the dehydrating effect and get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid
			(Promotes oxidation.) Moisture, light especially if in aqueous solution.

Incompatibility (Materials to avoid)

Alkalis, iron, copper, water, oxidizing agents.

Hazardous Decomposition Products

Combustion will produce carbon dioxide and probably carbon monoxide.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
 Scoop up and place in a suitable container for disposal by incineration.

Waste Disposal Method

Dispose of in an approved incinerator.

SECTION VIII SPECIAL PROTECTION INFORMATION

Discharge, treatment, or disposal may be subject to federal, state, or local laws.
Respiration Protection: None should be needed in normal laboratory handling. If dusty conditions prevail, use a well-fitting hood or wear NIOSH-approved respirator.
Ventilation: Local Exhaust Recommended. Mechanical (General) Recommended. Special No. Other No.

Protective Gloves

Rubber if sensitive to irritation. Other: Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container tightly closed, in a dark, moisture-free place at temperatures of 8-15°C. Keep away from strong oxidizing agent or acids.
Other Precautions: Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
 Rev. No. 1/1 Date 11/2/87 Approved [Signature] Chemical Safety Coordinator

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