



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
 COLUMBUS, WISCONSIN 53925-0008
 (920) 623-2140
 FAX (920) 623-2577

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Ascorbic (L-) Acid

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code	Emergency Telephone Number
Columbus Chemical Industries	CHEMTREC 1-800-424-9300
N4335 Temkin Rd	Telephone Number for Information
Columbus, WI 53925-0008	920-623-2140
	Date Prepared
	07-01-2005
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ascorbic (L-) Acid * **	50-81-7	5 mg/m ³ TWA	Not Established	Not available	>95%
		Respirable			
		15 mg/m ³ TWA			
		Total dust			

*OSHA establishes a PEL of 15 mg/m³ (total dust) and 5 mg/m³ (respirable dust) for "Particulates Not otherwise regulated".

** Synonym: Vitamin C,

Section III - Physical/Chemical Characteristics

Boiling Point	Decomposes	Specific Gravity (H ₂ O = 1)	1.65
Vapor Pressure (mm Hg)	Not applicable	Melting Point	190 °C (374°F)
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	Not applicable

Solubility in Water

soluble

Appearance and Odor

White to slightly yellow crystals or powder

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Non flammable		Not applicable	Not applicable

Extinguishing Media

Use water spray, dry chemical, or carbon dioxide to extinguish supporting fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Material in powder form is capable of creating a dust explosion.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Light
	Stable	X		

Incompatibility Materials to Avoid

Exposure to light and moist air.

Hazardous Decomposition or Byproducts

Carbon monoxide and carbon dioxide

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data**Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes		Yes	Yes
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Health Hazards (Acute and Chronic)

SKIN: May cause irritation EYE: May cause eye irritation. INHALATION: May be irritating if inhaled. Material may be irritating to the mucous membranes and upper respiratory tract. INGESTION: May be harmful if swallowed in large quantities.

Carcinogenicity**NTP****IARC Monographs****OSHA REGULATED?**

	Not listed	Not listed	Not listed
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Signs and Symptoms of Exposure.

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness and pain. Gastrointestinal discomfort and possible pain upon ingestion.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures

EYES: Immediately flush with large amounts of water for at least 15 minutes. SKIN:

Wash with soap and water. INHALATION: Remove to fresh air. INGESTION: Give large amounts of water.

Provide supportive treatment.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Wear gloves and safety glasses. Moisten solid spills to avoid raising dust. Sweep up and

dispose of in regular waste. Large liquid spills may be acidic, dilute with plenty of water and wash to sewer.

Wash spill site after material pickup is complete.

Waste Disposal Method Dispose of material in accordance with all applicable Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe dust.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures**Respiratory Protection (Specify Type)**

NIOSH / MSHA-approved respirator with dust/mist cartridge if concentration in air is high.

Ventilation

Local Exhaust Not required

Special Eyewash nearby.

Mechanical (General) Not required

Other Hand washing facilities

Protective Gloves Appropriate chemical-resistant gloves.

Eye Protection Safety glasses

Other Protective Clothing or Equipment Lab coat or apron, dust-mask.

Work /Hygienic Practices Do NOT wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling.