



COLUMBUS CHEMICAL INDUSTRIES INC.

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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)

Silver Cyanide

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

Columbus Chemical Industries, Inc.

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

09-07-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Silver Cyanide***, 506-64-9, ***5 mg(CN)/m³ (skin), 5 mg(CN)/m³ (ceiling,skin), Not Available.

*Subject to SARA Section 313 Reporting Requirements.

** Cyanide may penetrate the skin, especially if skin is broken.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (Not Available), Specific Gravity (H2O = 1) (Not Available), Vapor Pressure (mm Hg) (Not Available), Melting Point (320 °C (608°F)), Vapor Density (AIR = 1) (Not Available), Evaporation Rate (Butyl Acetate = 1) (Not Available).

Solubility in Water

Slightly soluble

Appearance and Odor

White to grey powder with chunks.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: None, Not Applicable, Not Applicable.

Extinguishing Media

Water on fires near cyanides. Minimize cyanide runoff. DO NOT use Carbon Dioxide (will produce hydrogen cyanide).

Special Fire Fighting Procedures

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. Use water spray to keep fire-exposed containers cool.

Unusual Fire and Explosion Hazards

May emit extremely toxic hydrogen cyanide fumes under fire conditions. Avoid cyanide solution runoff that may occur if water contacts material. Contained cyanide solution can be detoxified with sodium hypochlorite solution.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	acids, moisture, strong oxidizers
	Stable	X		

Incompatibility Materials to Avoid

Acids, water, alkali. Reacts violently with strong oxidizing agents, alkaloids, iodine, metallic salts, chloral hydrate.

Hazardous Decomposition or Byproducts

Highly toxic hydrogen cyanide upon contact with acids.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		None
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

EYE: Irritation, blurred vision. SKIN: Irritation, skin permeation can occur to cause discomfort or death.

INGESTION: Rapidly fatal poison when taken internally. INHALATION: May cause discomfort, dizziness, vomiting; may be fatal at higher exposures. Harmful to blood, cardiovascular, central nervous systems.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

EYE: Irritation, discomfort, blurred vision. SKIN: Irritation, discomfort, rash. SYSTEMIC (Ingestion or absorption through skin) /INHALATION: Nausea, headache, dizziness, vomiting, weakness, death.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures EYES/SKIN: Flush immediately with plenty of water for at least 15 minutes. Remove

contact lenses if possible. SKIN: Administer amyl nitrite antidote and oxygen. INGESTION: If consciousness is impaired, administer oxygen and amyl nitrite antidote.

INHALATION: Move to fresh air. Administer amyl nitrite antidote and oxygen. CALL 911.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate unprotected personnel from area. Maintain adequate ventilation. Wear breathing apparatus, rubber boots, rubber gloves and chemical safety goggles. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site with sodium hypochlorite solution after material pickup is complete.

Waste Disposal Method Dispose of spillage in accordance with all Federal, state, and local regulations. May be detoxified with sodium hypochlorite or hydrogen peroxide solutions. Do not release cyanides to the environment.

Precautions to be Taken in Handling and Storing Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Protect against physical damage and light. Store in corrosion-proof area. Do not get in eyes or on skin or clothing. Do not taste or swallow. Avoid breathing dust. Wash thoroughly after handling. Protect from air, acids, alkali or moisture.

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

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH approved respirator with dust/mist cartridge. Supplied air respirator if applicable.

Ventilation	Local Exhaust	Necessary.	Special	Amyl nitrite antidote
	Mechanical (General)	Necessary.	Other	Safety shower nearby. Eyewash nearby.

Protective Gloves Rubber gloves (butyl or Neoprene preferred). **Eye Protection** Chemical Safety Goggles, Full Face Shield.

Other Protective Clothing or Equipment Rubber apron and rubber boots. Hydrogen cyanide (HCN) detector.

Work /Hygienic Practices Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse. Do NOT wear contact lenses. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. HIGHLY TOXIC MATERIAL!

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