



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)

Glycerin

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

P.O. Box 8, N4335 Temkin Rd.

Columbus, WI 53925-0008

Emergency Telephone Number

Chemtrec 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

09-08-2005

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)
Glycerin*	56-81-5	5 mg/m ³	10 mg/m ³	N/A	>96
Respirable					

*Synonyms: Glycerol; Glycerin Mist; 1,2,3-Propanetriol; Trihydroxypropane; 1,2,3-Trihydroxypropane.

Section III - Physical/Chemical Characteristics

Boiling Point	290°C (554 °C)	Specific Gravity (H ₂ O = 1)	0.965
Vapor Pressure (mm Hg)	<1 mmHg	Melting Point	20 °C (68°F)
Vapor Density (AIR = 1)	3.17	Evaporation Rate (Butyl Acetate = 1)	Not Available

Solubility in Water
 Soluble; pH 5.5-8

Appearance and Odor
 Water white liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
390 °F (199 °C), closed cup		0.9%	N/A

Extinguishing Media

Dry chemical, carbon dioxide, water spray.

Special Fire Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece respirator operated in positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	air, incompatibles
	Stable	X		

Incompatibility Materials to Avoid

Oxidizers, acids, bases, acetic anhydride

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		N/A
	Will Not Occur	X	

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

Contact with skin or eyes may cause slight irritation. Inhalation may cause slight irritation of upper respiratory tract. May be harmful if swallowed or inhaled.

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

Signs and Symptoms of Exposure.

EYES: Redness, pain, tearing, conjunctivitis. SKIN: Redness, swelling, pain, itchiness, rash. INGESTION: Gastrointestinal discomfort, nausea and vomiting. INHALATION: coughing, wheezing, laryngitis, shortness of breath, headache.

Medical Conditions Generally Aggravated by Exposure

None identified.

Emergency and First Aid Procedures INGESTION: Wash out mouth with water provided person is conscious. Call a physician immediately. INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. SKIN: Flush with water for at least 15 minutes. Remove contaminated clothing; call a physician. EYES: Flush with large amounts of water for at least 15 minutes, lifting lower and upper eyelids.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Safety glasses or goggles, rubber boots and rubber gloves. Stop leak if able to do so without risk. Ventilate area. Absorb spill with absorbent material. With clean shovel carefully place material into clean, dry container; cover and remove from area. Flush spill area with water.

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

Precautions to be Taken in Handling and Storing Keep container closed tightly. Store in cool, dry, corrosion-resistant area. Store away from oxidizers. Material is hygroscopic; prevent exposure to water.

Other Precautions Store away from heat or ignition sources.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH / MSHA approved respirator if necessary

Ventilation	Local Exhaust	Recommended.	Special	Safety Shower nearby.
	Mechanical (General)	Acceptable.	Other	Eye wash station nearby.

Protective Gloves Appropriate chemical resistant gloves. **Eye Protection** Chemical safety goggles.

Other Protective Clothing or Equipment Rubber apron or lab coat.

Work /Hygienic Practices Wash thoroughly after handling. Minimize vapor and mist levels. Avoid contact with skin and eyes. Do not breathe vapor. Avoid prolonged or repeated exposure.