



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)

Propylene Glycol

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 Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

12-21-2006

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)
Propylene Glycol*	57-55-6	Not Available	Not Available	Not Available	>95%

*SYNONYMS: 1,2-Propanediol; 1,2-Dihydroxypropane; Methylene glycol; Methyl glycol.

Section III - Physical/Chemical Characteristics

Boiling Point	188 °C (370 °F)	Specific Gravity (H ₂ O = 1)	1.04
Vapor Pressure (mm Hg) @ 20 °C (68 °F)	0.08 mmHg	Melting Point	-60 °C (-76 °F)
Vapor Density (AIR = 1)	2.62	Evaporation Rate (Butyl Acetate = 1)	<1

Solubility in Water

Complete.

Appearance and Odor

Clear and water white liquid with slight alcohol odor.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
99 °C / 210 °F (CC); Autoignition Temperature: 700 °F.		2.6	12.5

Extinguishing Media

Use water spray, fog or foam or dry chemical powder.

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. Prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Product is slippery when spilled; spread granular cover on area. Contain and minimize dispersion. Use water spray to cool containers and reduce flame.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Strong oxidizers.
	Stable	X		

Incompatibility Materials to Avoid

Oxidizers, reducing agents, nitric acid, alkalis, chloroformates, strong acids, aliphatic amines, isocyanates, acid anhydrides.

Hazardous Decomposition or Byproducts

Carbon dioxide, carbon monoxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not Applicable
	Will Not Occur	X	

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

May be fatal if swallowed; harmful if inhaled or absorbed through skin. Irritating to skin, eye, mucous membranes and upper respiratory tract. Can cause central nervous system depression, anemia, convulsions. Chronic exposure can cause liver, heart, and kidney damage and blindness. Can cause fetal defects and retardation if ingested during pregnancy.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
None	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Headache, nausea, vomiting, drowsiness, dizziness, inebriation, unconsciousness, coma, and possibly death may result from exposure. NOT FOR HUMAN CONSUMPTION!

Medical Conditions Generally Aggravated by Exposure

N/A

Emergency and First Aid Procedures

EYES: In case of contact, immediately flush with large amounts of water for at least 15

INGESTION: Get medical attention. Do not induce vomiting unless instructed to do so by physician. Loosen tight clothing.

are ingested, **SKIN:** Remove contaminated clothing and shoes. Wash with soap and water. **INHALATION:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing give oxygen. Call physician.

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

Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose in accordance with all 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. Protect against physical damage. Keep away from heat, sparks and flame. Hygroscopic material. Store below 23 °C (73.4 °F).

Other Precautions DO NOT weld, braze, saw, or grind near product. Containers, even when empty, will retain residue and flammable vapors. 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 organic cartridge.

Ventilation	Local Exhaust	Recommended.	Special	Safety shower nearby.
	Mechanical (General)	Recommended.	Other	Eyewash facilities nearby.

Protective Gloves Appropriate, chemical-resistant gloves. **Eye Protection** Chemical Safety Goggles

Other Protective Clothing or Equipment Suit or apron, faceshield. Clean, body-covering clothing.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Avoid eye and skin contact.

Avoid breathing vapors. Follow safe handling and laboratory practices. Wash hands prior to eating or smoking.

Avoid prolonged or repeated exposure.

Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but it is not intended to be all inclusive. The information relates only to the specific Material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the Material, those handling, storing or using the Material should satisfy themselves that they have current information regarding the particular way the Material is handled, stored and used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.