



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)

Sulfuric Acid, Sp.Gr. 1.820-1.825, Milk

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

07-29-2004

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: Sulfuric Acid\*, 7664-93-9, 1mg/m³ TWA, 1mg/m³ TWA, STEL, 95-98%

\*Chemical Subject to the reporting requirements of SARA Title III Section 313

\*EPA TSCA Section 8(B) Chemical Inventory.

\*Synonyms: Dihydrogen sulfate; Oil of Vitreol; Sulphuric acid.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Row 1: Boiling Point, N/A, Specific Gravity (H2O = 1), 1.8277. Row 2: Vapor Pressure (mm Hg), N/A, Melting Point, N/A. Row 3: Vapor Density (AIR = 1), N/A, Evaporation Rate (Butyl Acetate = 1), N/A.

Solubility in Water

Complete (in all proportions).

Appearance and Odor

Clear, odorless liquid.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: N/A, N/A, N/A, N/A.

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, alcohol foam.

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. Corrosive. Contact with other material may cause fire. May cause ignition when mixed with finely divided material.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Excessive heat, alkali,
	Stable	X		metals, incompatibles.

**Incompatibility Materials to Avoid**

Bases, halides, organic materials, metals, carbides, cyanides, chlorates, nitrates, picrates, permanganate, peroxides.

**Hazardous Decomposition or Byproducts**

Oxides of sulfur (e.g. sulfur dioxide); hydrogen sulfide.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		N/A
	Will Not Occur	X	

**Section VI Health Hazard Data**

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
Multiple-including eyes	Yes	Yes	Yes

**Health Hazards (Acute and Chronic)**

Destructive to mucous membranes and upper respiratory tract, eyes and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, pulmonary edema and chemical pneumonitis. Harmful if absorbed through skin. May effect teeth and cardiovascular system.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	No	Yes	No

**Signs and Symptoms of Exposure.**

Burning sensation of skin, eyes and/or upper respiratory tract. Coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Skin burns, irritation of eyes and inflammation and/or edema of exposed tissues.

**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**

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Stop leak if able to do so without risk. Ventilate area. Neutralize spill with soda ash or lime. 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**

Store in a cool, dry, well-ventilated area in tightly-closed, corrosion-resistant containers. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Protect exposed tissues. Store away from heat.

**Other Precautions** Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not allow contact with water.

**Section VII Control Measures**

**Respiratory Protection (Specify Type)** NIOSH / MSHA-approved respirator with acid vapor cartridge.

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

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

**Other Protective Clothing or Equipment** Rubber apron, boots. Full rubber acid suit. Eye wash station nearby.

**Work /Hygienic Practices** Normal: wash thoroughly after handling. Minimize vapor and mist levels. Avoid contact with skin and eyes. Do not breathe vapor. Avoid prolonged or repeated exposure. **CORROSIVE!**