



COLUMBUS CHEMICAL INDUSTRIES INC.

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

Buffer, pH 2.00 Solution [CCI# 833500]

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 Road	Telephone Number for Information
Columbus, Wisconsin 53925	1-920-623-2140
	Date Prepared
	12-05-2005
	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)
Potassium Chloride	877-24-7	N/A	N/A	Not Available	<1%
Hydrochloric acid*	7647-01-0	5 ppm (Ceiling)	5 ppm (Ceiling)	Not Available	<1%
Thimerosal	54-64-8	0.01mg/m ³ (as Hg)	0.01mg/m ³ (as Hg)	Not Available	0.02%

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

Section III - Physical/Chemical Characteristics

Boiling Point	approximately 100 °C (212 °F)	Specific Gravity (H ₂ O = 1)	1.02
Vapor Pressure (mm Hg)	Not Available	Melting Point	approximately 0 °C (32 °F)
Vapor Density (AIR = 1)	Not Available	Evaporation Rate (Butyl Acetate = 1)	Not Available

Solubility in Water

Complete.

Appearance and Odor

Clear, colorless liquid.

Section IV Fire and Explosion Hazard Data

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

Extinguishing Media

Water spray, dry chemical, carbon dioxide, alcohol foam.

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

May release toxic fumes of carbon monoxide and carbon dioxide.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Not available.
	Stable	X		

Incompatibility Materials to Avoid

Sodium, potassium, lithium, magnesium,

Hazardous Decomposition or Byproducts

Carbon dioxide, carbon monoxide, sulfur oxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		
	Will Not Occur	X	Not available.

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

	Yes	Yes	Yes
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Health Hazards (Acute and Chronic)

May be harmful if swallowed. May be harmful if absorbed through skin or inhaled. May cause irritation upon contact with eyes or skin.

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

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

Irritation of eyes, skin and mucous membranes including redness, swelling and pain. Coughing, burning sensation, wheezing, laryngitis, shortness of breath, abdominal pain, diarrhea, coma, headache, muscle weakness, nausea, vomiting.

Medical Conditions Generally Aggravated by Exposure

Repeated or prolonged exposure is not known to aggravate medical conditions.

Emergency and First Aid Procedures

EYES/SKIN: Flush immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Remove contact lenses if possible. Call physician. **INGESTION:** Wash out mouth with water if person is conscious. Give plenty of water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

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

Evacuate and ventilate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant rubber boots, apron and rubber gloves. Absorb spill with vermiculite, sand or other inert material. Wash spill area thoroughly with water after pickup is complete. Keep unnecessary persons away from spill site.

Waste Disposal Method Dispose of spillage, and other materials used for clean up in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Do not get in eyes or on skin or clothing. Do not taste or swallow. Avoid breathing mists and vapors. Wash thoroughly after handling. Keep away from foodstuffs. Store in cool, well-ventilated area, out of direct sunlight. Keep container closed. Protect from freezing or physical damage.

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.

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

Protective Gloves Compatible, chemical resistant. **Eye Protection** Chemical safety goggles.

Other Protective Clothing or Equipment Boots. Body-covering clothing.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Wear appropriate personal equipment. Wash thoroughly after handling. Do not breathe vapors. Avoid contact with eyes, skin and clothing. Wash contaminated clothing thoroughly after use. Avoid prolonged or repeated exposure.

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