



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
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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)

Adams-Evens Buffer Solution

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

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1-920-623-2140

Date Prepared

10-24-2006

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)
Potassium Chloride	7447-40-7	Not established	Not established	Not Available	6-8%
Boric Acid	10043-35-3	Not established	5 mg/m ³ (dust)	10 mg/m ³ ***	1-2%
P-Nitrophenol	100-02-7	Not established	Not established	Not Available	1-2%
Potassium Hydroxide	1310-58-3	2 mg/m ³	2 mg/m ³	Not Available	1%

*** ACGIH-TWA

Section III - Physical/Chemical Characteristics

Boiling Point	Not available	Specific Gravity (H ₂ O = 1)	1.0565
Vapor Pressure (mm Hg)	Not available	Melting Point	Not available
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water

Complete.

Appearance and Odor

Translucent yellow-green 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 emit toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Acids.
	Stable	X		

Incompatibility Materials to Avoid

Strong acids and bases

Hazardous Decomposition or Byproducts

Sodium oxide, boron oxides, nitrogen oxides

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)

May be fatal if swallowed; harmful if inhaled or absorbed through skin. Causes skin, eye and upper respiratory tract irritation, burns.

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

Signs and Symptoms of Exposure.

Redness, swelling, itchiness, dry skin, pain. Coughing, burning sensation, wheezing, laryngitis, shortness of breath, abdominal pain, diarrhea, headache, stomach upset and vomiting.

Medical Conditions Generally Aggravated by Exposure

Unknown to Columbus Chemical Industries, Inc.

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. DO NOT induce vomiting. 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 suitable personal protective equipment. Contain spill with dikes, sand or noncombustible absorbent material. Absorb on noncombustible absorbant. 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 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 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 Chemical resistant. **Eye Protection** Chemical safety goggles.

Other Protective Clothing or Equipment Boots.

Work /Hygienic Practices Wear appropriate personal protective 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. Poison!

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