



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

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.

Barium Chloride, 0.1N

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Emergency Telephone Number

Columbus Chemical Industries, Inc.

CHEMTREC 1-800-424-9300

N4335 Temkin Rd

Telephone Number for Information

Columbus, WI 53925-0008

920-623-2140

Date Prepared

07-05-2007

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: Barium Chloride, dihydrate, 10327-27-9, 0.5 mg/m³, 0.5 mg/m³, Not Available, 1-3%.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (Not available), Specific Gravity (H2O = 1) (1.00), 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

Clear, colorless solution

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Noncombustible., Not applicable, Not applicable.

Extinguishing Media

Suitable to extinguish the supporting flame. 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

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Incompatibles.
	Stable	X		

Incompatibility Materials to Avoid

Oxidizers, acids, 2-furan percarboxylic acid.

Hazardous Decomposition or Byproducts

Barium oxides

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

SKIN: May cause irritation, permeator EYE: Causes eye irritation. INHALATION: May be harmful if inhaled.

Material may be irritating to the mucous membranes and upper respiratory tract.

INGESTION: May be harmful if swallowed. **Material is a POISON!**

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

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, convulsions, headache, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Expected to aggravate asthma, emphysema and other respiratory diseases upon

inhalation.

Emergency and First Aid Procedures EYES /SKIN: Immediately flush with large amounts of water for at least 15 minutes.

Remove contaminated clothing. Assure adequate flushing of eyes by separating eyelids with fingers. INHALATION:

remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION:

DO NOT induce vomiting. Give large amounts of water. GENERAL: Wash contaminated clothing.**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Ventilate area. Wear rubber boots, heavy protective gloves and chemical safety goggles. Absorb spilled material on sand or vermiculite and place in plastic container for disposal. Wash spill area with water after pickup is complete. Do not allow entry into sewer or ground.

Waste Disposal Method Dispose of spillage 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. Store in a corrosion-resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation.

Wash thoroughly after handling. Protect exposed tissues.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. **POISON!!****Section VIII Control Measures****Respiratory Protection (Specify Type)** Not required

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

Protective Gloves Chemical-resistant gloves. **Eye Protection** Chemical Safety Goggles**Other Protective Clothing or Equipment** Rubber apron, boots.**Work /Hygienic Practices** Do **NOT** wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling. Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse.

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