



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)

Calcium Chloride, 93% briners

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 Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

12-20-2004

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: Calcium Chloride, 10043-52-4, Not established, Not established, Not available, 93%

Section III - Physical/Chemical Characteristics

Table with 2 columns: Property, Value. Rows: Boiling Point (Not available), Specific Gravity (H2O = 1) (Not Available), Vapor Pressure (mm Hg) (Not available), Melting Point (772 °C (1421 °F)), Vapor Density (AIR = 1) (Not available), Evaporation Rate (Butyl Acetate = 1) (Not available)

Solubility in Water

Complete.

Appearance and Odor

white crystalline solid

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

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes. Use water spray to keep fire-exposed containers cool.

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

Moisture, zinc

Hazardous Decomposition or Byproducts

Hydrogen chloride.

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 and may be harmful if absorbed through the skin. 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.

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

	Not Listed	Not Listed	Not Listed
--	------------	------------	------------

Signs and Symptoms of Exposure.

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness and pain.

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 self-contained breathing apparatus, rubber boots, heavy protective gloves and chemical safety goggles. Dike spill and dilute with water. Pick up and place in plastic container for disposal. Wash spill area with water after pickup is complete.

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 resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. 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. Do not breathe mists or vapors.

Section VII Control Measures**Respiratory Protection (Specify Type)**

NIOSH / MSHA-approved respirator with dust/mist cartridge.

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. Eye wash station, Safety Shower.

Work /Hygienic PracticesDo **NOT** wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling. Do not breath mists or vapors. Avoid contact with eyes, skin and clothing. Use only with effective ventilation. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse.

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