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Columbus Chemical Industries, Inc. / Route 2, Box 187-B / Columbus, Wisconsin 53925 / 414-623-2140

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SODIUM CHLORIDE

Material Safety Data Sheet

Columbus Chemical Industries, Inc.
N4335 Temkin Road
Columbus, WI 53925
(414) 623-2140

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APR 20 1985

Effective Date: 08-07-85

PRODUCT IDENTIFICATION:

Synonyms: Salt

Formula CAS No.: 7647-14-5

Molecular Weight: 58.44

Hazardous Ingredients:
None.

Chemical Formula: NaCl

PRECAUTIONARY MEASURES

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and insure prompt removal from skin, eyes and clothing.

SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data

SECTION 1

Appearance: White crystalline.

Odor: Odorless.

Solubility: 36g/100cc water @ 20°C (68°F)

Boiling Point: 1413°C (2575°F)

Vapor Density (Air-1): No information found.

Melting Point: 801°C (1474°F)

Vapor Pressure (mm Hg): 1.0 @ 865°C (1589°F)

Specific Gravity: 2.16

Evaporation Rate: No information found.

Fire and Explosion Information

SECTION 2

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Reactivity Data

SECTION 3

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

When heated to above 801°C (1474°F) it emits toxic fumes of chloride and sodium oxide

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Lithium, bromide trifluoride.

Leak/Spill Disposal Information

SECTION 4

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility, or if local ordinances allow, can be dissolved in sufficient amounts of water to meet water quality standards, and flushed down a sewer drain.

Ensure compliance with local, state and federal regulations.

Health Hazard Information

SECTION 5

A. Exposure/Health Effects

Inhalation: Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness, and sore throat.

Ingestion: Very large doses can cause vomiting, diarrhea, and prostration. Dehydration and congestion occur in most internal organs. Hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract.

Skin Contact: Not expected to be a health hazard.

Eye Contact: May cause irritation.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

B. FIRST AID

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, get medical advice.

Skin Exposure: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure: Wash thoroughly with running water. Get medical advice if irritation develops.

C. TOXICITY DATA (RTECS, 1982)

Oral rat LD50: 3000 mg/kg.
Reproductive effects cited.

Occupational Control Measures

SECTION 6

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators: (NIOSH Approved) For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information SECTION 7

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

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