

FACTORY : Survey No.322/3, AT-Indrad, TA-Kadi,
Dist-Mehsana-382715. Gujarat.(INDIA)

OFFICE : 4,Shreenath Bunglows,
Ramwadi Tekra, Isanpur, Ahmedabad-382443.

E mail : info@siliconindustries.net

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BARIUM CHLORIDE DIHYDRATE

MSDS MATERIAL SAFETY DATA SHEET

01: PRODUCT IDENTIFICATION

SYNONYMS : BARIUM CHLORIDE

CAS NO. : 10361-37-2 (ANHYDROUS) 10326-27-9 (DIHYDRATE)

MOLECULAR WEIGHT : 244.27

CHEMICAL FORMULA : BaCl₂·2H₂O

02: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | CAS NO | PERCENT | HAZARDOUS |
|-------------------|---------------|----------------|------------------|
| Barium Chloride | 10326-27-9 | 98 – 99.5 % | Yes |

03 : HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS HEART, RESPIRATORY SYSTEM, AND CENTRAL NERVOUS SYSTEM.

SAFETY RATINGS (PROVIDED HERE FOR YOUR CONVENIENCE)

HEALTH RATING : Severe (Poison)

FLAMMABILITY RATING : 0 – None

REACTIVITY RATING: Slight

CONTACT RATING: Moderate

LAB PROTECTIVE EQUIP: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

STORAGE COLOR CODE: Blue (Health)

POTENTIAL HEALTH EFFECTS

INHALATION:

Irritates the respiratory tract. May produce sore throat, coughing and labored breathing. Other symptoms may parallel ingestion.

INGESTION:

Toxic! May cause severe gastroenteritis, including abdominal pain, vomiting and diarrhea. May cause tremors, faintness, paralysis of arms and legs, and slow or

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irregular heartbeat. Severe cases may produce collapse and death on respiratory failure. Estimated lethal dose in humans: 1 gram.

SKIN CONTACT:

May cause irritation with redness and pain.

EYE CONTACT:

May cause irritation, redness, pain, or blurred vision.

CHRONIC EXPOSURE:

No information found.

AGGRAVATION OF PRE-EXISTING CONDITIONS:

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

04 : FIRST AID MEASURES

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION:

Get medical attention immediately. Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. After vomiting, a mixture of 1 tablespoon of sodium or magnesium sulfate (Epsom salts) dissolved in 8 oz. of water to drink maybe indicated to precipitate the barium as the nontoxic and insoluble barium sulfate.

SKIN CONTACT:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

NOTE TO PHYSICIAN:

Monitor patients with significant ingestion for respiratory, cardiovascular, and blood pressure status. Watch for cardiac arrhythmias, respiratory failure due to flaccid paralysis of respiratory muscles, pulmonary edema, vocal cord paralysis, severe hypertension, and late effect kidney failure. Acute barium poisoning results in hypokalemia. The administration of fluids containing dilute concentrations of potassium salts may be indicated.

05 : FIRE FIGHTING MEASURES

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.

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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.

06 : ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

07 : HANDLING AND STORAGE

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

08 : PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|--|
| Appearance : | White solid. |
| Odor : | Odorless. |
| Solubility : | 31 g/100 g water @ 0C (32F) (Anhydrous) |
| Specific Gravity : | 3.86 @ 24C(75F) (Anhydrous) |
| Ph | No information found |
| % Volatiles By Volume : | |
| @ 21c (70f) : | 0 |
| Boiling Point : | 1560C (2840F) (Anhydrous) |
| Melting Point : | 963C (1765F) (Anhydrous) |
| Vapor Density (Air=1) : | No information found. |
| Vapor Pressure (Mm Hg) : | No information found. |
| Evaporation Rate (Buac=1) : | No information found. |

09 : STABILITY AND REACTIVITY

STABILITY:

Stable under ordinary conditions of use and storage.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of the contained metal and halogen, possibly also free, or ionic halogen.

HAZARDOUS POLYMERIZATION:

Will not occur.

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INCOMPATIBILITIES:

Bromine trifluoride; 2-furan percarboxylic acid. (Anhydrous)

CONDITIONS TO AVOID:

Incompatibles.

10 : TOXICOLOGICAL INFORMATION

Barium chloride: Oral rat LD50: 118 mg/kg (anhydrous).
Investigated as a tumorigen (dihydrate).

-----\Cancer Lists\----- ---NTP Carcinogen---

| Ingredient | Known | Anticipated | IARC Category |
|------------------------------|-------|-------------|---------------|
| Barium Chloride (10326-27-9) | No | No | None |

11 : ECOLOGICAL INFORMATION

Environmental Fate:

This material is expected to significantly bioaccumulate.

Environmental Toxicity:

No information found.

12 : DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved incinerator or disposed in an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

13 : TRANSPORT INFORMATION

DOMESTIC (LAND, D.O.T.)

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SILICON
INDUSTRIES

Manufacturer : Inorganic Chemicals | Barium Salts

Proper Shipping Name: BARIUM COMPOUND, N.O.S. (BARIUM CHLORIDE)

Hazard Class: 6.1

UN/NA: UN1564

Packing Group: III

Information reported for product/size: 250LB

International (Water, I.M.O.)

PROPER SHIPPING NAME: BARIUM COMPOUND, N.O.S. (BARIUM CHLORIDE)

HAZARD CLASS: 6.1

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INFORMATION REPORTED FOR PRODUCT/SIZE: 250LB

Key Tags:

barium chloride

barium chloride formula

BaCl₂

barium chloride dihydrate msds

barium chloride dihydrate formula

barium chloride dihydrate sds

barium chloride dihydrate cas 10326-27-9 | 101719

Barium Chloride Dihydrate BaCl₂ 2H₂O CAS No.: 10326-27-9