

SODIUM BISMUTHATE

Material Safety Data Sheet

Mallinckrodt Chemical Inc.

P.O. Box 800

Paris, Kentucky 40362

Emergency Telephone Number
314-539-1600

Effective Date: 10-10-85

PRODUCT IDENTIFICATION:

Synonyms: Sodium bismuth oxide; bismuth sodium oxide

Formula CAS No.: 12232-99-4

Molecular Weight: 279.97

Hazardous Ingredients: Sodium bismuthate

Chemical Formula: NaBiO3

PRECAUTIONARY MEASURES

CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE KIDNEY DAMAGE.

Wash thoroughly after handling.

EMERGENCY FIRST AID

If swallowed, induce vomiting immediately by giving two glasses of water, or milk if available and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.
SEE SECTION 5.

Physical Data

SECTION 1

Appearance: Yellow or brownish yellow powder. Somewhat hygroscopic.

Odor: Odorless.

Solubility: Insoluble in cold water. Decomposes by hot water.

Boiling Point: Not applicable.

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

Melting Point: No information found.

Vapor Pressure (mm Hg): No information found.

Specific Gravity: No information found. Evaporation Rate: No information found.

Fire and Explosion

SECTION 2

Information-----
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:

Slowly decomposes on keeping; decomposition accelerated by moisture.

Hazardous Decomposition Products:

When heated to decomposition, emits fumes of bismuth and sodium oxide. Decomposes in hot water forming bismuth oxide and sodium hydroxide, and liberating oxygen.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: Acids.

Leak/Spill Disposal Information

SECTION 4

Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust. 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.

Ensure compliance with local, state and federal regulations.

Health Hazard Information

SECTION 5

A. Exposure/Health Effects

Inhalation: Can be a route for absorption into body. Bismuth is moderately toxic.

Ingestion: Moderately toxic with similar symptoms of lead poisoning (abdominal pain, nausea, and vomiting). Large doses cause serious diarrhea and death.

Skin Contact: A mild irritant if exposed over a long time.

Eye Contact: A mechanical irritant.

Chronic Exposure: Continued absorption into body can lead to permanent kidney damage.

Aggravation of Pre-existing Conditions: Persons with impaired kidney function may be more susceptible to the effects of the substance.

B. FIRST AID

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

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water, or milk if available and sticking finger down throat. Call a physician immediately. Never give anything by mouth to an unconscious person.

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

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

C. TOXICITY

(RTECS, 1986)

SARA Section 302 EHS TPQ:

Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec. 103:

Comprehensive Environmental Response, Compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4

RCRA:

Resource Conservation and Recovery Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

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