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**MATERIAL SAFETY DATA SHEET (MSDS)****SODIUM BISMUTHATE AR****1. Product Identification**

**Synonyms:** Sodium bismuth oxide; bismuth sodium oxide  
**CAS No.:** 12232-99-4

Product Coad: S0186300100

**Molecular Weight:** 279.97  
**Chemical Formula:** NaBiO<sub>3</sub>  
**Product Codes:** 0352

**2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent
Sodium Bismuthate	12232-99-4	80-100%

**3. Hazards Identification**

**Emergency Overview WARNING! HARMFUL IF SWALLOWED. MAY CAUSE KIDNEY DAMAGE.**

**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.

**4. First Aid Measures**

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

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

**5. 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.

**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.

**6. 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.

**7. Handling and Storage**

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

**8. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:** None established.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection:** Wear protective gloves

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and

clean body-covering clothing. **Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

**Appearance:** Yellow or brownish yellow powder. Somewhat hygroscopic.

**Odor:** Odorless.

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

**% Volatiles by volume @ 21C (70F):** 0

#### 10. Stability and Reactivity

**Stability:** Slowly decomposes on keeping; decomposition accelerated by moisture.

**Hazardous Decomposition Products:** Toxic metal fumes may form when heated to decomposition. Decomposes in hot water forming bismuth oxide and sodium hydroxide, and liberating oxygen.

**Hazardous Polymerization:** Will not occur. **Incompatibilities:** Acids.

**Conditions to Avoid:** Heat, moisture, incompatibles.

#### 11. Toxicological Information

Oral rat LD50: 420 mg/kg Investigated as a mutagen.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Sodium Bismuthate (12232-99-4)	No	No	None

#### 12. Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

#### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal 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.

#### 14. Transport Information

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

#### 15. REGULATORY

SARA Title III: N/A

Federal Regulatory: N/A

#### 16. Other Information

**NFPA Ratings:** Health: 2 Flammability: 0 Reactivity: 0

**Label Hazard Warning:** WARNING! HARMFUL IF SWALLOWED. MAY CAUSE KIDNEY DAMAGE.

**Label Precautions:** Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container closed. Wash thoroughly after handling. **Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. **Product Use:** Laboratory Reagent.

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**SODIUM BISMUTHATE AR**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**