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MATERIAL SAFETY DATA SHEET (MSDS)

BISMUTH NITRATE LR

1. Product Identification

Synonyms: Nitric acid, bismuth (3+) salt, pentahydrate; bismuth ternitrate
CAS No.: 10035-06-0 (Anhydrous)

Product Coad: B0044200100

Molecular Weight: 485.11
Chemical Formula: Bi(NO₃)₃ 5H₂O

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Bismuth Nitrate	10361-44-1	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: Bismuth salts are poorly absorbed. Should absorption occur, symptoms may include loss of appetite, headache, skin rashes, kidney damage, and rarely mild jaundice. Production of nitrites in the intestine may cause headache, flushing skin, vomiting, falling blood pressure, cyanosis, and in severe cases convulsions and coma.

Skin Contact: May cause mild irritation.

Eye Contact: May cause mild irritation.

Chronic Exposure: Repeated or prolonged ingestion may cause a "bismuth line", black spots on the gums, foul breath, and salivation.

Aggravation of Pre-existing Conditions: No information found.

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: Wash exposed area with soap and water. Get medical advice 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 combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion: Contact with oxidizable substances may cause extremely violent combustion.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

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. Separate from combustibles, organic or other readily oxidizable materials. Avoid storage on wood floors. 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.

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

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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 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: Transparent, colorless crystals.

Odor: Slight nitric acid odor.

Solubility: Slowly decomposes in water to form subnitrate.

Density: 2.83

pH: No information found.

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

Boiling Point: Not applicable.

Melting Point: 75 - 80C (167 - 176F) Decomposes.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Hygroscopic.

Hazardous Decomposition Products: Toxic metal fumes may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids, strong reducing agents, powdered metals and organic/combustible/easily oxidizable materials.

Conditions to Avoid: Heat, moisture, dusting, contact with combustibles and incompatibles.

11. Toxicological Information

For bismuth nitrate pentahydrate; LD50 oral rat: 4042 mg/Kg Investigated as a reproductive effector.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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Bismuth Nitrate (10361-44-1)	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

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Proper Shipping Name: NITRATES, INORGANIC, N.O.S. (BISMUTH NITRATE)

Hazard Class: 5.1
UN/NA: UN1477
Packing Group: II

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Bismuth Nitrate (10361-44-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
Bismuth Nitrate (10361-44-1)	Yes	Yes	No	No

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
Bismuth Nitrate (10361-44-1)	No	No	No	Nitrate Cmpd

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
Bismuth Nitrate (10361-44-1)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: Yes (Mixture / Solid)

Australian Hazchem Code: 1[T]

Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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MATERIAL SAFETY DATA SHEET (MSDS)**BISMUTH NITRATE LR****16. Other Information**

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 1 Other: Oxidizer

Label Hazard Warning: DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Label Precautions: Keep from contact with clothing and other combustible materials.

Do not store near combustible materials. Store in a tightly closed container. Remove and wash contaminated clothing promptly. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

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. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In all cases, get medical attention.

Product Use: Laboratory Reagent.

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.

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