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Material Safety Data Sheet

Bismuth Sulfate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Bismuth Sulfate Catalog Codes: 10306 CAS#: 7787-68-0 RTECS: Unlisted TSCA: Not available Synonym: None Chemical Formula: Bi ₂ O ₁₂ S ₃	Contact Information: Finar Limited 184-186/P, Chacharwadi Vasna, Sarkhej-Bavla Highway, Ta.: Sanand, Dist.: Ahmedabad, Email: info@finarchemicals.com Web: www.finarchemicals.com
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Section 2: Composition and Information on Ingredients

Composition: Name	CAS #	%
Bismuth Sulfate	7787-68-0	100%

Section 3: Hazards Identification

Effects of Exposure:

To the best of our knowledge the chemical, physical and toxicological properties of bismuth sulfate have not been thoroughly investigated and recorded.

Bismuth and its salt can cause kidney damage, although the degree of such damage is usually mild. Large doses can be fatal. Industrially it is considered one of the less toxic of the heavy metal. Serious and sometimes fatal poisoning may occur from the ingestion of large doses into closed cavities and from extensive application to burns. It is stated that the administration of bismuth should be stopped when gingivitis appears, for otherwise serious ulceration stomatitis is likely to result. Other toxic results may develop, such as a vague feeling of bodily discomfort, presence of albumin or other protein substance in the urine, diarrhea, skin reactions and sometimes serious dermatitis.

Sulfates have variable toxicity. In general the toxic properties of substances containing the sulfate radical is that the materials (cation) with which the sulfate (anion) is combined. (Sax, Dangerous Properties of Industrial Materials, eighth edition).

Routes of Entry: Inhalation, Skin, Ingestion

Health Hazards: Irritant

Signs and Symptoms of Exposure: Irritation

Section 4: First Aid Measures

Inhalation:

Remove victim to fresh air & allow to rest. Consult a physician.

Ingestion:

If within 15 minutes after occurrence, make patient drink 1 or 2 glasses of water. Seek medical attention immediately.

Skin:

Rinse with copious amounts of water and soap for 15 minutes.

Eyes:

Rinse, lifting upper and lower lids, with cool water for at least 15 minutes. Consult a physician.

Treatment and Antidotes:

Personnel showing some of the symptoms noted above which might indicate that they were absorbing too much bismuth into the body should be removed from exposure as soon as possible. Get medical advice. Personnel should be cautioned against careless handling of these materials.

Section 5: Fire and Explosion Data

Flash Point: N/E or N/A

Autoignition Temperature: N/E or N/A

Flammability Limits: Lower: N/A **Upper:** N/A

Extinguishing Media: Use suitable extinguishing media for surrounding material and type of fire.

Special Firefighting Procedures: Firefighters must wear a full-face, self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: When heated to decomposition bismuth sulfate may emit highly toxic fumes of sulfur oxide.

Section 6: Accidental Release Measures**General Information:**

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Section 7: Handling and Storage

Store in a tightly sealed container. Exposure to the atmosphere may lead to release of toxic hydrogen sulfide gas. Empty containers may retain product residues that evolve toxic gases.

Section 8: Exposure Controls/Personal Protection

Respiratory Protection (Specify Type): Wear a NIOSH-approved dust respirator.

Ventilation: Use local exhaust to maintain adequate ventilation. General exhaust is recommended

Protective Gloves: Neoprene

Eye Protection: Safety Glasses

Other Protective Equipment: Wear protective clothing to prevent contamination of skin and clothes.

Section 9: Physical and Chemical Properties

Boiling Point (°C): N/E or N/A

Melting Point: 405 °C (decomposes)

Specific Gravity: 5.08 g/cc @ 15 °C

Solubility in H₂O: Decomposes

Vapor Pressure: N/A

% Volatile: N/A

Appearance and Odor: White powder or pieces, odor not determined

Section 10: Stability and Reactivity Data

Stability: Stable

Conditions to Avoid: Water/moisture

Incompatibility (Materials to Avoid): Acids, oxidizers

Hazardous Decomposition Products: Sulfur oxide fume.

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

RTECS#:

CAS# 7787-68-0 is unlisted.

LD50/LC50: Not available.

Acute Effects:

Inhalation: May cause damage to the respiratory system.

Ingestion: Moderately toxic by ingestion. May cause irritation to the gastrointestinal tract.

Skin: May cause irritation.

Eye: May cause irritation.

Chronic Effects:

Inhalation: May cause pneumonitis.

Ingestion: No chronic health effects recorded.

Skin: No chronic health effects recorded.

Eye: No chronic health effects recorded.

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

UN number: Not classified.

Proper shipping name: Not applicable.

Class: Not applicable.

Packing group: Not applicable

Section 15: Other Regulatory Information

US FEDERAL: Not available

TSCA

CAS# 7080-50-4 is not on the TSCA Inventory

Health & Safety Reporting List

Not on the Health & Safety Reporting List.

Chemical Test Rules

Not under a Chemical Test Rule.

OSHA: Not Available

No more information available

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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