



SANTECH

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Material Safety Data Sheet

Bismuth Powder MSDS

Section 1 - Chemical Product and Company Identification

Product Name: Bismuth Powder

Molecular Weight: Bi 208.98037

CAS No.: 7440-69-9

EINECS No.: 231-177-4

Data No.: MSDS-Bipowder-160105

Manufacturer Information

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Section 2 - Composition, Information on Ingredients

Composition:

Name	CAS No.	EC-No.	%by weight
Bismuth Powder	7440-69-9	231-177-4	99.99

No ingredients are hazardous according to OSHA criteria

Section 3 - Hazards Identification

Emergency Overview

OSHA Hazards

Flammable solid

GHS Label elements, including precautionary statements

Hazard Symbols: F



Risk Phrases: 11

Hazard statement(s)

H228

Flammable solid.

H303

May be harmful if swallowed.

Precautionary statement(s)

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Section 4 - First Aid Measures -----

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures -----

Conditions of flammability: Flammable in the presence of a source of ignition, through friction or retained heat. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions. - Bismuth oxides

Further information: Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures -----

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations .

Section 7 - Handling and Storage -----

Precautions for safe handling: Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources

of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Section 8 - Exposure Controls, Personal Protection -----

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of Workday.

Section 9 - Physical and Chemical Properties -----

Physical state and appearance: Powder

Colour: Light grey

pH: Not available

Melting point/range: 271 ° C (520 ° F) - lit.

Boiling point: 1,560 ° C (2,840 ° F) - lit.

Flash point: Not available

Flammability (solid, gas): The substance or mixture is a flammable solid

Ignition temperature: Not available

Autoignition temperature: Not available

Lower explosion limit: Not available

Upper explosion limit: Not available

Vapour pressure: < 0.1 hPa (< 0.1 mmHg) at 20 ° C (68 ° F)

Density: 9.8 g/mL at 25 ° C (77 ° F)

Water solubility: insoluble

Partition coefficient: Not available

Relative vapour density: Not available

Odour: odourless

Odour Threshold: Not available

Evaporation rate: Not available

Section 10 - Stability and Reactivity

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not available

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid: Oxidizing agents, Halogens, acids

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Bismuth oxides

Other decomposition products: Not available

Section 11 - Toxicological Information

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure: Kidney disorders, Liver disorders, Dermatitis

Synergistic effects: Not available

Section 12 - Ecological Information

Toxicity: Not available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil:

PBT and vPvB assessment: Not available

Other adverse effects: Not available.

Section 13 - Disposal Considerations

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15 - Regulatory Information

OSHA Hazards: Flammable solid

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title

III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire Hazard

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Additional Information -----

References: based on the present state of our knowledge and is to describe the product with reference to the safety measures that must be taken

Other Special Considerations: Not available.

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Last Updated: 05/01/2016

Further information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Changsha Santech Materials Co.,Ltd., be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Changsha Santech Materials Co.,Ltd., has been advised of the possibility of such damages.