

Material Safety Data Sheet

Approval Date : 07.02.02

Print Date : .

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1. Chemical product and company identification

Product name: **Bismuth**

Company: HEK GmbH, Kaninchenborn 24 - 28, D - 23560 Lübeck, Tel.: ++451/530040; Emergency no. München: ++89/19240

2. Composition / information on ingredients

Chemical characterization (substance): Bismuth

Hazardous ingredients: None

3. Hazards identification

No hazards known

4. First aid measures

Inhalation: Not relevant

Skin contact: Not relevant

Eye contact: Flush with water for 15 min

Ingestion: Drink water, do not vomit

5. Fire-fighting measures

Suitable extinguishing media: The metal does not burn

Not suitable extinguishing media: Water spray jet is not suitable for overheated metal, halone

Specific hazards: None

Protection for fire-fighters: None

6. Accidental release measures

Personal precautions: Not relevant

Environmental precautions: Not known

Methods for cleaning up: Take up mechanically, avoid formation of dust

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7. Handling and storage

Handling: Avoid formation of dust

Storage: Store in closed containers

8. Exposure controls / personal protection

Personal protective equipment:

Hand protection: Wear suitable gloves

Eye protection: Wear protecting glasses

Respiratory protection: In case of dust formation, use a fine dust face mask

Body protection: Not necessary

Do not drink, eat or smoke, after shift wash thoroughly with soap and water

9. Physical and chemical properties

Appearance:

Form: solid

Colour: metallic

Odour: none

Change in physical state:

Melting point: 271 °C

Boiling point: 1630 °C

Flash point: not relevant

Explosive properties: not relevant

Vapour pressure (1000 °C): 133 mbar

Density (20 °C): 9.75 g/cm³

Solubility (in water): insoluble, soluble in mineral acids

pH-Value: not relevant

10. Stability and reactivity

Materials to avoid: Strong nitric acid, chlorine, oxidizing agents

Conditions to avoid: None

11. Toxicological information

Skin, eyes, inhalation: May be slight irritant

Ingestion: LD50 (oral, rat): 5g/kg

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12. Ecological information

Not toxic to ground water, prevent discharge into the sewer system and ground water

13. Disposal considerations

Pass on to an appropriate incinerating plant

14. Transport information

Product is no dangerous good

15. Regulatory information

Symbol : None

R-, S-Phrases : None

16. Other information

None