

Holmium: sc-250119



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Holmium
Catalog Code: sc-250119
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

Section 2: Composition and Information on Ingredients

Ingredient: Holmium
CAS Number: 7440-60-0
ACGIH (TWA): no data
OSHA (PEL): no data

Section 3: Hazards Identification

Emergency Overview: May cause slight to mild irritation of the eyes, skin and respiratory tract by any dust present.

Primary Routes of Exposure: Inhalation (of any dust or fume)

Eye Contact: Dust, if present, may cause slight to mild irritation of the eyes.

Skin Contact: Dust, if present, may cause slight to mild irritation of the skin.

Inhalation: Inhalation of any fine dust may be irritating to the nasal cavity, mucous membranes and respiratory tract.

Ingestion: No specific information is available on the physiological effects of ingestion.

Acute Health Affects: Dust, if present, may be irritating to skin, eyes and respiratory tract.

Chronic Health Affects: No information available on the effects of long-term exposure.

NTP: No

IARC: No

OSHA: No

Section 4: First Aid Measures

Eye Exposure: (For dust) Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

Skin Exposure: The material is in the form of a metal ingot. Skin exposure is not an issue.

Inhalation: (For dust) Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Ingestion: The material is in the form of a metal ingot. Ingestion is an unlikely occurrence.

Section 5: Fire Fighting Measures

Flash Point: not applicable

Autoignition Temperature: none

Explosion Limits: none

Extinguishing Medium: Dry chemical or Class D metal fire agent.

Special Fire Fighting Procedures: (As dust) If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus.

Hazardous Combustion and Decomposition Products: If involved in a fire, burning metal may produce mildly irritating fumes of Holmium oxide or carbonate.

Unusual Fire or Explosion Hazards: Ingot may ignite during grinding. Any dust may form explosive mixtures with air. Evolves hydrogen with hot water.

Section 6: Accidental Release Measures

Spill and Leak Procedures: Not applicable; material is a metal ingot.

Section 7: Handling and Storage

Handling and Storage: Store and handle under an inert atmosphere of argon. Desiccate at 4° C.

Section 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.

Skin Protection: Wear protective clothing and gloves.

Ventilation: If possible, handle the material in an efficient fume hood.

Respirator: If handling material in the form of a fine dust and ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

Ventilation: If possible, handle the material in an efficient fume hood.

Additional Protection: No additional protection required.

Section 9: Physical and Chemical Properties

Form	ingot	Molecular Weight	164.93
Melting Point	1474°	Boiling Point	2695°
Vapor Pressure	no data	Specific Gravity	8.795
Odor	none	Solubility in Water	insoluble
Molecular Formula	Ho		

Section 10: Stability and Reactivity

Stability: air sensitive, moisture sensitive solid

Hazardous Polymerization: no hazardous polymerization

Conditions to Avoid: Contact with hot water. Fine dust mixed with air.

Incompatibility: Water, alcohols, oxidizers, oxygen, halogens, halocarbons, mineral acids.

Decomposition Products: none

Section 11: Toxicological Information

RTECS Data: No information available in the RTECS files.

Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Tetratogenic Effects: No data available

Section 12: Ecological Information

Ecological Information: No information available

Section 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous

Hazard Class (CFR): NA

Additional Hazard Class (CFR): NA

Packaging Group (CFR): NA

UN ID Number (CFR): NA

Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (Title 313): Title compound not listed
Second Ingredient: none
Third Ingredient: none

Section 16: Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

6/28/2012