

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc.

7 Mulliken Wav

Newburyport, MA 01950-4098 U.S.A.

www.strem.com

Strem Customer Service CHEMTREC (Emergency Only) (978) 499-1600 (800) 424-9300

Poison Center

(800) 562-8236

Section 1: **Product Identification**

Chemical Name: Cesium (99.9+%) (prescored ampoule)

metal or element

Alkali metal

Product Number: 55-5551 7440-46-2 CAS Registry Number: Formula: Cs **EINECS Number:** 231-155-4 Chemical Family:

Section 2: **Composition and Information on Ingredients**

Ingredient **CAS Number** Percent ACGIH (TWA) OSHA (PEL) Title Compound 7440-46-2 no data no data

Section 3: **Hazards Identification**

Synonym:

The metal rapidly forms caustic and highly corrosive alkali hydroxide with evolution of heat. Severe thermal **Emergency Overview:**

and chemical burns will result at every point of human contact.

Primary Routes of Exposure: Contact with skin and eyes.

Eve Contact: Severe thermal burns, corrosion and ulceration of the eyes may occur on direct contact. Skin Contact: Severe thermal burns, corrosion and ulceration of the skin may occur on direct contact.

Inhalation: Inhalation is not a likely mode of entry.

Ingestion will cause burns and perforations of the gastrointestinal tract. Ingestion:

With moisture or human contact, metal rapidly forms caustic and highly corrosive alkali hydroxide with Acute Health Affects:

evolution of heat. Severe thermal and chemical burns will result.

Chronic Health Affects: No information available on long-term chronic effects.

NTP: No IARC: No OSHA: No

SECTION 4: First Aid Measures

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need Eye Exposure:

assistance in keeping their eye lids open. Get immediate medical attention.

Wash the affected area with water for at least 15 minutes. Remove contaminated clothes if necessary. Seek Skin Exposure:

medical assistance if irritation persists.

(For dust or fume) Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, Inhalation:

such as difficulty in breathing or coughing. In such cases seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce Ingestion:

vomiting only if directed by medical personnel.



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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: no data
Explosion Limits: no data

Extinguishing Medium: Class D metal fire agent, dry salt or sand.

Special Fire Fighting Procedures:

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 If involved in a fire, burning metal may produce severely corrosive fumes of cesium oxide and hydroxide.

Decomposion Products:

Unusual Fire or Explosion Hazards: Pyrophoric solid. May self-ignite. Evolves flammable hydrogen with water.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Not applicable; material is metal pieces

SECTION 7: Handling and Storage

Handling and Storage: Handle and store in a tightly sealed container under an inert atmosphere of argon.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved chemical splash proof goggles.

Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.

Ventilation: Handle in an efficient fume hood.

Respirator:

If 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: Handle in an efficient fume hood.
Additional Protection: Prepare for the possibility of fire.

SECTION 9: Physical and Chemical Properties

Color and Form:under argonMolecular Weight:132.91Melting Point:28.64°Boiling Point:690°

Vapor Pressure: 1mm (279 °C)
Specific Gravity: 1.892
Odor: none

Solubility in Water: reacts violently

SECTION 10: Stability and Reactivity

Stability: moisture sensitive, pyrophoric
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: Contact with water or air.

Incompatibility: Water, alcohols, oxidizers, oxygen, carbon dioxide, halogens, halocarbons, acids.

Decomposition Products: Flammable hydrogen with moisture, caustic oxide with air.



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SECTION 11: Toxicological Information

RTECS Data: Intraperitoneal (mouse); LD50: 1700 mg/kg.

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): Cesium
Hazard Class (CFR): 4.3
Additional Hazard Class (CFR): NA
Packaging Group (CFR): I

UN ID Number (CFR):

Shipping Name (IATA):

Hazard Class (IATA):

Additional Hazard Class (IATA):

Packaging Group (IATA):

UN# 1407

Cesium

4.3

NA

UN ID Number (IATA): UN# 1407

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 information herein is believed to be accurate and reliable as of the date compiled. However, Strem

Disclaimer: Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information

contained in this document or any use of the product based on this information.

Preparation Date: 11/27/2000 Revision Date: 8/01/2011

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