

# MATERIAL SAFETY DATA SHEET

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**ID:** SRCPT3

## BIS(1,2,4-TRITERTIARYBUTYLCYCLOPENTADIENYL)-STRONTIUM

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

**Product Name**

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium

**Formula**

C<sub>34</sub>H<sub>58</sub>Sr

**Company Identification**

See footer.

### 2. HAZARDS IDENTIFICATION

Light sensitive solid. Contact can cause irritation to eyes, respiratory system, and skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation**

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium

**Components/Impurities**

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium >97%

Free (tBu)<sub>3</sub>CpH

**EC No.**

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium Not known

**CAS No.**

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium Not known

### 4. FIRST AID MEASURES

Prompt medical attention is required in all cases of exposure to Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium and its by-products. Rescue personnel should be equipped with appropriate protective equipment (e.g. Self-contained breathing apparatus) to avoid unnecessary exposure and must be aware of the hazardous nature of Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium

**Skin**

Contact may cause irritation. Immediately flush affected areas with large quantities of water. Remove affected clothing as rapidly as possible only if not stuck to skin. If irritation persists seek medical advice.

**Eyes**

Contact may cause irritation. Persons with potential exposure to Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium should not wear contact lenses. Flush contaminated eyes with large quantities of water for at least 15 minutes. Hold eyelids open to ensure complete flushing. Seek medical attention.

**Inhalation**

May cause irritation to nose, respiratory tract and mucous membrane. Move exposed personnel to an uncontaminated area quickly using self-contained breathing apparatus. If breathing is difficult, give oxygen. If breathing has stopped, apply artificial respiration. Medical assistance should be sought immediately. Keep victim warm and quiet.

**Ingestion**

If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

Use dry powder, soda ash or lime, foam or halogenated compounds to fight fires involving this material. Without risk, stop flow of this compound to the fire. Without risk, and if safe to do so, move container(s) away from fire area.

**Exposure Hazards**

If involved in a fire this material may emit carbon dioxide, carbon monoxide and toxic organic fumes.

**Special Protective Equipment for Fire-Fighters**

Fire resistant clothing, self-contained breathing apparatus, face shield and safety goggles, safety shoes and fire resistant gloves.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Evacuate area. Use appropriate protective equipment. Purge equipment with inert gas before attempting repairs. Ensure adequate ventilation. If leak is in container call one of the emergency numbers as appropriate. (See footer).

**Environmental Precautions**

Do not allow material to enter the environment. For fire-fighting measures see Section 5.

**Clean up methods**

Small spills can be mixed with powdered sodium carbonate, vermiculite or ground limestone and sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**Handling**

Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

**Storage**

Keep in a closed container. Store material in a cool dry place. Keep away from heat and moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Controls:

Use mechanical exhaust and laboratory fume hoods to prevent exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use NIOSH/MSHA-approved respirator. Use compatible chemical-resistant gloves. Chemical safety goggles. Keep container closed.

### OSHA or ACGIH:

None established.

### OES and MEL:

None established.

Ensure adequate ventilation.

### Personal Protection

Self-contained breathing apparatus, chemical resistant gloves, face shield and safety goggles, safety shoes, chemical-resistant garments. Safety shower and eyewash.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**MWt:** 554.8  
**Melting Point:** 135-140 °C  
**Vapour Pressure:** log<sub>10</sub>P = 11.519 - 4615.8/T (P=mmHg, T=K)  
**Solubility in water:** Decomposes  
**Soluble:** In organic solvents  
**Appearance:** Solid  
**Colour:** White

## 10. STABILITY AND REACTIVITY

**Note:** Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium is stable indefinitely in an inert dark atmosphere at room temperature.

### Materials to avoid

Avoid water. Moist air. Oxidizing agents.

### Hazardous Decomposition Products

Strontium Oxide dust, Organic vapours, CO, CO<sub>2</sub>.

## 11. TOXICOLOGICAL INFORMATION

Irritating to eyes, skin, and respiratory system.

To the best of our knowledge the toxicological properties have not been thoroughly investigated.

**SAFETY NOTICE:** In order to provide our customers with the highest quality material and maintain our high standards of safety, the surface temperature of the bubbler may be monitored during the transportation of our products using a tempilabel. Tempilabel is a temperature-monitoring strip which will indicate the temperature during shipment. The strip will turn black at one of the four ratings shown if the temperature is reached (normally a silver centre). If the temperature monitor is changed, please notify an SAFC Hitech representative immediately and we will assist you in the proper measures to be taken. We ask for your co-operation in our efforts of quality assurance and safety. If you have any questions or comments, please contact an SAFC Hitech representative. We thank you for your co-operation. Your assistance is greatly appreciated.

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the company assumes no liability for loss or damage incurred from the proper or improper use of such product.

SAFC Hitech  
Power Road, Bromborough  
WIRRAL, MERSEYSIDE, CH62 3QF, UK  
Tel: 44 (0) 151 334 2774  
Fax: 44 (0) 151 334 6422

SAFC Hitech  
1429 Hilldale Avenue  
HAVERHILL, MA, 01832-1300, USA  
Tel: 1 978 374 5200  
Fax: 1 978 374 6474

### 24 Hour Emergency Contact Numbers:

Europe: 44 151 334 2774 United States: Chemtrec: (800) 424 9300

Other International Countries: Chemtrec (703) 527 3887

General Enquiries to email: [HitechInfo@sial.com](mailto:HitechInfo@sial.com)

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium is not listed in the IARC, NTP or OSHA Subpart Z as a carcinogen or potential carcinogen.

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium is not listed on the TSCA inventory.

Bis(1,2,4-tritertiarybutylcyclopentadienyl)strontium is not listed for SARA 313

## 12. ECOLOGICAL INFORMATION

This product does not contain any Class I or Class II ozone depleting chemicals.

## 13. DISPOSAL CONSIDERATIONS

Regional and National regulations should be followed during waste disposal.

## 14. TRANSPORT INFORMATION

UN No: Non hazardous for transport

CLASS:

PG

ECCN#:

EmS

Shipping Name:

## 15. REGULATORY INFORMATION

### Classification

Xi Irritant

### Risk Phrases

R36/37/38: Irritating to eyes, respiratory system and skin.

### Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

## 16. OTHER INFORMATION

Ensure operators understand the nature of the product. Before using this product, it is recommended that a risk assessment and safety study be carried out. Further information on the use of this product can be obtained from the Technical Product Manager at the nearest SAFC Hitech facility.