



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# Cerium(IV)-zirconium(IV) oxide: sc-252556



The Power to Question

## MATERIAL SAFETY DATA SHEET

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### 1 Identification of substance

**Product Name:** Cerium(IV)-zirconium(IV) oxide

**Product Number:** sc-252556

**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

### 2 Hazards identification

**Hazard designation:** void

**Information pertaining to particular dangers for man and environment** Not applicable

**GHS label elements** Void

### 3 Composition/information on ingredients

**Chemical characterization:**

**Designation: (CAS#)** Cerium zirconium oxide (CAS# 53169247), 100%

### 4 First aid measures

**After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

**After skin contact** Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

**After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing** Seek medical treatment.

### 5 Fire fighting measures

**Suitable extinguishing agents** Use fire fighting measures that suit the environment.

**Protective equipment:** Wear self-contained breathing apparatus. Wear full protective suit.

### 6 Accidental release measures

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**Measures for environmental protection:** Do not allow material to be released to the environment without proper governmental permits.

**Measures for cleaning/collecting:** Collect mechanically.

**Additional information:** See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### 7 Handling and storage

#### Handling

**Information for safe handling:** Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.

**Information about protection against explosions and fires:** The product is not flammable

**Storage Requirements to be met by storerooms and containers:** No special requirements.

**Information about storage in one common storage facility:** Do not store together with acids. Do not store together with alkalis (caustic solutions).

**Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

### **8 Exposure controls and personal protection**

**Additional information about design of technical systems:** Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Components with critical values that require monitoring at the workplace:** Zirconium and compounds, as Zr

	<i>mg/m3</i>
ACGIH TLV	10; 10STEL, Not classifiable as human carcinogen
Australia TWA	5; 10STEL
Austria MAK	5
Denmark TWA	5
Finland TWA	5
Korea TLV	5
Hungary	5-STEL
Poland TWA	5; 10-STEL
Russia	6-STEL
OSHA PEL	5

**Additional information:** No data

#### **Personal protective equipment**

**General protective and hygienic measures** The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

**Breathing equipment:** Use breathing protection with high concentrations.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

### **9 Physical and chemical properties:**

**Form:** Powder

**Smell:** Odourless

#### **Change in condition**

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** Not determined

**Sublimation temperature / start:** Not determined

**Flash point:** Not applicable

**Inflammability (solid, gaseous)** Product is not inflammable.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Danger of explosion:** Product is not explosive.

#### **Critical values for explosion:**

**Lower:** Not determined

**Upper:** Not determined

**Steam pressure:** Not determined

**Density** Not determined

**Solubility in / Miscibility with Water:** Insoluble

### **10 Stability and reactivity**

**Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

**Materials to be avoided:** Acids, Bases

**Dangerous reactions:** No dangerous reactions known

**Dangerous products of decomposition:** Metal oxide

## ***11 Toxicological information***

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** May cause irritation

**on the eye:** May cause irritation

**Sensitization:** No sensitizing effect known.

**Additional toxicological information:** To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## ***12 Ecological information***

**Additional ecological information:**

**General notes:** Generally not hazardous for water.

Do not allow material to be released to the environment without proper governmental permits.

## ***13 Disposal considerations***

**Product:**

**Recommendation** Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

## ***14 Transport information***

**Land transport ADR/RID and GGVS/GGVE (crossborder/domestic)**

**ADR/RIDGGVS/E Class:** None

**Maritime transport IMDG/GGVSea:**

**IMDG/GGVSea Class:** None

**Marine pollutant:** No

**Air transport ICAOTI and IATADGR:**

**ICAO/IATA Class:** None

**Transport/Additional information:** Not dangerous according to the above specifications.

## ***15 Regulatory information***

**Designation according to EC guidelines:** Observe the normal safety regulations when handling chemicals  
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

**National regulations**

**Information about limitation of use:** For use only by technically qualified individuals.

**Water hazard class:** Generally not hazardous for water.

## ***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.***

1/4/2011