# Gadolinium(III) chloride: sc-224004



#### The Power to Question

# MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Gadolinium(III) chloride

Product Number: sc-224004

**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. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: GdCl3

Molecular Weight: 263.61 g/mol

CAS-No.	EC-No.	Index-No.	<u>Concentration</u>
Gadolinium trichloride			
10138–52–0	233-386-6	_	_

# 3. HAZARDS IDENTIFICATION

**Emergency Overview** 

**OSHA Hazards** 

Irritant

HMIS Classification
Health Hazard: 2
Flammability: 0
Physical hazards: 0
NFPA Rating
Health Hazard: 2

Fire: 0
Reactivity Hazard: 0
Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

# 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIRE-FIGHTING MEASURES

### Flammable properties

Flash point not applicable Ignition temperature no data available

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### **Environmental precautions**

Do not let product enter drains.

### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

strongly hygroscopic Store under inert gas.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Hand protection**

Handle with gloves.

# Eye protection

Safety glasses

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form powder

Safety data

no data available Melting point Hq no data available Flash point Boiling point no data available not applicable Lower explosion limit Ignition temperature no data available no data available Upper explosion limit no data available Water solubility no data available

# 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Conditions to avoid

Avoid moisture.

#### Materials to avoid

Strong bases, Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, gadolinium oxides

#### 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

LD50 Intraperitoneal - mouse - 378 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Food intake (animal). Lungs, Thorax, or Respiration:Other changes.

#### Irritation and corrosion

Skin - rabbit - Skin irritation

Eyes - rabbit - Mild eye irritation - 1 h

### Sensitisation

no data available

# Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

# Signs and Symptoms of Exposure

Rare earth compounds may cause delayed blood clotting leading to hemorrhages. Inhalation of rare earths may cause sensitivity to heat, itching, and increased awareness of odor and taste., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Potential Health Effects**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

Ingestion May be harmful if swallowed.

Additional Information RTECS: LW4025000

# 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

# Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US) IMDG IATA

Not dangerous goods Not dangerous goods Not dangerous goods

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Irritant

**DSL Status** 

All components of this product are on the Canadian DSL list.

## **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Acute Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

Gadolinium trichloride CAS-No.

10138-52-0

### **New Jersey Right To Know Components**

Gadolinium trichloride CAS-No.

# 10138–52–0

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# **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.

02/02/2011