# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 04/07/2008 Print Date 03/28/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride

Product Number : 483621 Brand : Aldrich

Company : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>18</sub>H<sub>26</sub>Cl<sub>2</sub>Ti Molecular Weight : 361.17 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride			
79269-71-9	-	-	-

#### 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

#### **OSHA Hazards**

No known OSHA hazards

## **HMIS Classification**

Health Hazard: 0 Flammability: 0 Physical hazards: 0

**NFPA Rating** 

Health Hazard: 0 Fire: 0 Reactivity Hazard: 0

## **Potential Health Effects**

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

**Eyes** May cause eye irritation. Ingestion May be harmful if swallowed.

## **4. FIRST AID MEASURES**

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point no data available 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

Avoid dust formation.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Handling

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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Hand protection**

For prolonged or repeated contact use protective gloves.

#### **Eye protection**

Safety glasses

## Hygiene measures

General industrial hygiene practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form solid

Safety data

Hq no data available 233 °C (451 °F) Melting point **Boiling point** no data available no data available Flash point Ignition temperature no data available Lower explosion limit 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.

#### Materials to avoid

Strong oxidizing agents, acids, Bases, Chemically active metals

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Titanium/titanium oxides

## 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

no data available

#### Irritation and corrosion

no data available

## 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.

#### **Potential Health Effects**

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

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

## 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.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

#### 15. REGULATORY INFORMATION

## **OSHA Hazards**

No known OSHA hazards

#### **TSCA Status**

Not On TSCA Inventory

Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride

CAS-No.

79269-71-9

## **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No. 79269-71-9

Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride

## **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

No SARA Hazards

## Massachusetts Right To Know Components

No Components Listed

## **Pennsylvania Right To Know Components**

Sigma-Aldrich Corporation www.sigma-aldrich.com

CAS-No.

CAS-No.

79269-71-9

**Revision Date** 

Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride

79269-71-9

**New Jersey Right To Know Components** 

Revision Date

 $Bis (tert-butyl cyclopenta dienyl) titanium (IV) \ dichloride \\$ 

## 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**

#### **Further information**

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