

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : (24R)-24,25-Dihydroxyvitamin D3
 Product Number : 17943
 Brand : Sigma
 Company : Sigma-Aldrich Canada, Ltd
 2149 Winston Park Drive
 OAKVILLE ON L6H 6J8
 CANADA
 Telephone : +1 9058299500
 Fax : +1 9058299292
 Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C27H44O3
 Molecular Weight : 416.64 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
(24R)-24,25-Dihydroxyvitamin D3			
55721-11-4	-	-	-

3. HAZARDS IDENTIFICATION**Emergency Overview****WHMIS Classification**

D1A Very Toxic Material Causing Immediate and Serious Toxic Effects Highly toxic by ingestion

HMIS Classification

Health Hazard: 3
 Flammability: 0
 Physical hazards: 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. May be fatal if absorbed through skin.
Eyes : May cause eye irritation.
Ingestion : May be fatal if swallowed.

4. FIRST AID MEASURES

Sigma - 17943

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 1 of 9

General advice

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

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 : 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**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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 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.

Recommended storage temperature: -20 °C

Light sensitive. Store under inert gas. Keep in a dry place.

Sigma - 17943

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 2 of 9

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 full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : powder
 Colour : white

Safety data

pH : no data available
 Melting point : no data available
 Boiling point : no data available
 Flash point : no data available
 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, Acid chlorides, Acid anhydrides

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Sigma - 17943

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 3 of 9

Acute toxicity

LD50 Oral - rat - > 10 mg/kg

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.

Signs and Symptoms of Exposure

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. May cause respiratory tract irritation.
Skin : May be harmful if absorbed through skin. May cause skin irritation. May be fatal if absorbed through skin.
Eyes : May cause eye irritation.
Ingestion : May be fatal if swallowed.

Additional Information

RTECS: VS2895000

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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: II
 Proper shipping name: Toxic solids, organic, n.o.s. ((24R)-24,25-Dihydroxyvitamin D3)
 Marine pollutant: No
 Poison Inhalation Hazard: No

Sigma - 17943

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 4 of 9

IMDG

UN-Number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A
 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((24R)-24,25-Dihydroxyvitamin D3)
 Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: II
 Proper shipping name: Toxic solid, organic n.o.s. ((24R)-24,25-Dihydroxyvitamin D3)

15. REGULATORY INFORMATION**DSL Status**

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

(24R)-24,25-Dihydroxyvitamin D3	CAS-No. 55721-11-4
---------------------------------	-----------------------

WHMIS Classification

D1A Very Toxic Material Causing Immediate and Serious Toxic Effects Highly toxic by ingestion

16. OTHER INFORMATION**Further information**

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Sigma - 17943

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 5 of 9