Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 08/26/2008 Print Date 05/22/2009

Product name

1. PRODUCT AND COMPANY IDENTIFICATION

25-Hydroxyvitamin D₃ monohydrate

Product Number : 17938 Brand

: Sigma Company : Sigma-Aldrich Canada, Ltd.

EC-No.

OAKVILLE ON L6H 6J8 CANADA

2149 Winston Park Drive

: +1 9058299500 +1 9058299292 : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS : C27H44O2 Formula.

Molecular Weight : 418.65 g/mol

25-Hydroxyvitamin D3 monohydrate 63283-36-3

Index-No.

3. HAZARDS IDENTIFICATION

Target Organs Gastrointestinal tract, Bone, Kidney, Central nervous system, Cardiovascular system.

Emergency Overview

Telephone

CAS-No.

Emergency Phone #

Fax

WHMIS Classification Very Toxic Material Causing Immediate and Highly toxic by ingestion D1A Reproductive hazard

D2A Serious Toxic Effects HMIS Classification

Health Hazard: 3 Chronic Health Hazard:

Flammability: 0 Physical hazards: 0 Potential Health Effects

if absorbed through skin.

Inhalation Skin

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Eyes May cause eye irritation. May be fatal if swallowed. Ingestion

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

no data available

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

May be harmful if inhaled. May cause respiratory tract irritation.

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May be harmful if absorbed through skin. May cause skin irritation. May be fatal

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

4. FIRST AID MEASURES

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact

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

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

5. FIRE-FIGHTING MEASURES

If swallowed

Flammable properties no data available Flash point

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions

Ignition temperature

Suitable extinguishing media

6. ACCIDENTAL RELEASE MEASURES

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.

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C

Light sensitive. Store under inert gas.

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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

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Eye protection Safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

Hand protection Handle with gloves

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

solid

Lower explosion limit no data available

no data available

no data available

no data available

insoluble log Pow: 9.4

under appropriate government standards such as NIOSH (US) or CEN (EU).

Contains no substances with occupational exposure limit values.

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

Safety data рΗ Melting point

Upper explosion limit

Partition coefficient: n-octanol/water

Water solubility

Appearance Form

> Boiling point no data available no data available Flash point no data available Ignition temperature

25-HYDROXYCHOLECALCIFEROL is a analog of Vitamin D and may affect fetal development. Medical studies indicate an "increased rate of fetal abnormalities" as a result of high doses of Vitamin D given during pregancy. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Inhalation

Ingestion

no data available

Ecotoxicity effects

Target Organs

12. ECOLOGICAL INFORMATION

Skin

Eyes

physical, and toxicological properties have not been thoroughly investigated. Potential Health Effects

if absorbed through skin.

May cause eye irritation.

system.,

Elimination information (persistence and degradability)

May be fatal if swallowed.

probable, possible or confirmed human carcinogen by IARC.

no data available Further information on ecology no data available

incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Marine pollutant: No

UN-Number: 2811 Class: 6.1

Poison Inhalation Hazard: No

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DOT (US)

IATA

IMDG UN-Number: 2811 Class: 6.1 Marine pollutant: No

UN-Number: 2811 Class: 6.1

WHMIS Classification

D1A

D2A

15. REGULATORY INFORMATION

Proper shipping name: Toxic solid, organic n.o.s. (25-Hydroxyvitamin D3 monohydrate)

16. OTHER INFORMATION Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

Serious Toxic Effects

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.

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 Sigma-Aldrich Corporation Sigma - 17938 Page 3 of www.sigma-aldrich.com 11. TOXICOLOGICAL INFORMATION Acute toxicity 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

Signs and Symptoms of Exposure Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Weakness, To the best of our knowledge, the chemical,

May be harmful if inhaled. May cause respiratory tract irritation.

May be harmful if absorbed through skin. May cause skin irritation. May be fatal

Gastrointestinal tract, Bone, Kidney, Central nervous system, Cardiovascular

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

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EMS-No: F-A, S-A

Highly toxic by ingestion

Reproductive hazard

Packing group: II

Packing group: II

Proper shipping name: Toxic solids, organic, n.o.s. (25-Hydroxyvitamin D3 monohydrate)

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Packing group: II Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (25-Hydroxyvitamin D3 monohydrate)

This product contains the following components that are not on the Canadian DSL nor NDSL lists. CAS-No. 63283-36-3 25-Hydroxyvitamin D3 monohydrate

Very Toxic Material Causing Immediate and

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