Material Safety Data Sheet
Vitamin D3, crystalline

Section 1 - Chemical Product and Company Identification

MSDS Name: Vitamin D3, crystalline
Catalog Numbers: 14094-0000, 14094-0010
Synonyms: Cholecalciferol; 9,10-Secocholesta-5,7,10(19)-trien-3α-ol

Company Identification:
Acros Organics BVBA
Janssen Pharmaceuticalalaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS#
67-97-0 Vitamin D3 99+% 200-673-2

Hazard Symbols: T+

Risk Phrases: 24/25 26 48/25

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Very toxic by inhalation. Toxic in contact with skin and if swallowed. Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation. Toxic in contact with skin.
Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.
Inhalation: May be fatal if inhaled. May cause respiratory tract irritation. Toxic if inhaled.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Get medical aid immediately. Wash mouth out with water.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh
air immediately. If not breathing, give artificial respiration. If breathing is
difficult, give oxygen.

Notes to
Physician:

Section 5 - Fire Fighting Measures
General
Information: As in any fire, wear a self-contained breathing apparatus in pressure-
demand, MSHA/NIOSH (approved or equivalent), and full protective
gear.
Extinguishing
Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures
General
Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal
container. Wear a self contained breathing apparatus and appropriate
personal protection. (See Exposure Controls, Personal Protection section).
Do not let this chemical enter the environment.

Section 7 - Handling and Storage
Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on
clothing. Do not ingest or inhale. Use only in a chemical fume hood.
Storage: Keep refrigerated. (Store below 4°C/39°F.) Store in a tightly closed container.
Store in a dry area.

Section 8 - Exposure Controls, Personal Protection
Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits CAS# 67-97-0:

Personal Protective Equipment
Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or
European Standard EN 149. Use a NIOSH/MSHA or European Standard EN
149 approved respirator if exposure limits are exceeded or if irritation or
other symptoms are experienced.

Section 9 - Physical and Chemical Properties
Physical State: Crystalline powder
Color: white to off-white
Odor: odorless
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 82 - 87 deg C
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: <0.1 g/l (20°C)
Specific Gravity/Density:
Molecular Formula: C27H44O
Molecular Weight: 384.64

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Light sensitive.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents, acid chlorides, acid anhydrides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 67-97-0: VS2900000
LD50/LC50: RTECS: 
CAS# 67-97-0: Oral, mouse: LD50 = 42500 ug/kg; Oral, rat: LD50 = 42 mg/kg; 
Other: Skin, rabbit: LD50 = 61 mg/kg Inhalation, rat: LC = 0.13 - 0.38 mg/L/4H

Carcinogenicity: Vitamin D3 - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Not available

Other: Do not empty into drains. Biodegradability: <7% (28d.)

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

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Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 24/25 Toxic in contact with skin and if swallowed.
R 26 Very toxic by inhalation.
R 48/25 Toxic : danger of serious damage to health by prolonged exposure if swallowed.

Safety Phrases:
S 28A After contact with skin, wash immediately with plenty of water.
S 36/37 Wear suitable protective clothing and gloves.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 67-97-0: 1

Canada
CAS# 67-97-0 is listed on Canada's DSL List

US Federal
TSCA

CAS# 67-97-0 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 7/16/1996
Revision #1 Date 5/03/2005
Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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