

Safety data sheet

Vitamin D3 1.0 Mio IU/G

Revision date : 2007/04/24
Version: 1.0

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(30070969/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
73398-61-5	80.0 - 100.0 %	Glycerides
67-97-0	1.0 - 5.0 %	Vitamin D3

3. Hazard identification

Emergency overview

CAUTION: HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
HARMFUL IF INHALED.
CONTAINS MATERIAL WHICH CAN CAUSE KIDNEY DAMAGE.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of mists/vapours.
Ensure adequate ventilation.
Wear chemical resistant protective gloves.
Wear safety glasses with side-shields.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Information on: Vitamin D3

Toxic in contact with skin and if swallowed.

Very toxic by inhalation.

Repeated dose toxicity:

Information on: Vitamin D3

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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The substance may cause damage to the kidney even after repeated ingestion of low doses, as shown in animal studies.
The substance may cause damage to blood vessels even after repeated ingestion of low doses, as shown in animal studies.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Seek medical attention.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Suitable extinguishing media:

water spray, carbon dioxide, dry extinguishing media, foam

Hazards during fire-fighting:

No data available.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Ensure adequate ventilation.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

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Cleanup:

Dispose of absorbed material in accordance with regulations.

For large amounts: Dike spillage. Pump off product.

For residues: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

7. Handling and storage

Handling

General advice:

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

Protect from the effects of light. Keep container tightly closed and dry; store in a cool place. Protect from air.

8. Exposure controls and personal protection

Advice on system design:

Ensure adequate ventilation. Local exhaust ventilation preferred.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: oily
Odour: odourless
Colour: white to slightly yellow

Information on: Vitamin D3

Partitioning coefficient n-octanol/water (log Pow): > 6.2 (OECD Guideline 117)

Solubility in water: (35 - 40 °C) emulsifiable

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10. Stability and reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame.

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Oral:

Information on: Vitamin D3

LD50/rat: 35 - 47 mg/kg

Literature data.

Inhalation:

Information on: Vitamin D3

LC50/rat: approx. 0.13 - 0.38 mg/l / 4 h

Literature data. The EU classification 'very toxic by inhalation' obtained from examination with inhalable aerosol.

Dermal:

Information on: Vitamin D3

LD50/rat: 61 - 185 mg/kg

Literature data.

Genetic toxicity:

Information on: Vitamin D3

No mutagenic effect was found in various tests with bacteria, microorganisms and mammalian cell culture.

Literature data.

12. Ecological information

Information on: Vitamin D3

Test method:

OECD Guideline 301 F (aerobic), activated sludge, domestic

Method of analysis:

BOD of the ThOD

Degree of elimination:

< 10 % (28 d)

Evaluation:

Not readily biodegradable (by OECD criteria).

Poorly biodegradable.

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Accumulation in organisms is expected.

Information on: Vitamin D3

Acute and prolonged toxicity to fish:

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*DIN 38412 Part 15 static
golden orfe/LC50 (96 h): > 10,000 mg/l
The product has low solubility in the test medium. An aqueous dispersion has been tested. Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.*

*Information on: Vitamin D3
Acute toxicity to aquatic invertebrates:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): > 100 mg/l
The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration. No toxic effects occur within the range of solubility.*

*Information on: Vitamin D3
Toxicity to aquatic plants:
OECD Guideline 201 static
green algae/EC50 (96 h): > 100 mg/l
The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration. No toxic effects occur within the range of solubility.*

*Information on: Vitamin D3
Toxicity to microorganisms:
OECD Guideline 209 aerobic
activated sludge, domestic/EC20 (0.5 h): > 1,000 mg/l*

13. Disposal considerations

Waste disposal of substance:

Do not discharge into waterways or sewer systems without proper authorization.
Dispose of in accordance with national, state and local regulations.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

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TSCA, US released / exempt

OSHA hazard category: Not hazardous

SARA hazard categories (EPCRA 311/312): Not hazardous

16. Other information

HMIS III rating

Health: 1 \square Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

prod_reg@basf.com

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