



# Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Vitamin D2 1 MIU/g

Version: 000

Revision date: 23.04.2020

## **SECTION 1: Identification.**

### **1.1 GHS Product identifier**

**Product name** : Vitamin D2 1 MIU/g

### **1.2 Recommended use of the chemical and restrictions on use**

Used as Nutrient in food and dietary supplement preparation

**1.3 Supplier's details** : Divi's Laboratories Limited,  
1-72/23(P)/Divis/303,  
Divi towers, Cyber Hills, Gachibowli,  
Hyderabad – 500 032, Telangana

**e-mail:** [mail@divislaboratories.com](mailto:mail@divislaboratories.com)

**Website:** [www.divislabs.com](http://www.divislabs.com)

**1.4 Emergency phone number** +91-8922-248944

## **SECTION: 2 Hazards Identification**

### **2.1 Classification of the substance or mixture:**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral Category 4

Acute toxicity, Inhalation Category 4

Skin sensitization Category 1B

Specific Target Organ Toxicity Repeated Exposure category 1

### **2.2 GHS label elements, including precautionary statements**

**Signal word(s)**

Danger

**Hazard statement(s)**

Harmful if swallowed

Harmful if inhaled.

May cause an allergic skin reaction

Causes damage to organs through prolonged or repeated exposure

**Precautionary statement(s)**

**Prevention:**

Avoid breathing mist/vapors.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

**Response:**



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Rinse mouth.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

Call a POISON CENTER or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of water

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment

Take off contaminated clothing and wash it before reuse.

## Storage

No data available

## Disposal:

Dispose according to international/local federal regulations

## Hazard Pictograms:



### 2.3 Other hazards which do not result in classification

High risk of slipping due to leakage/spillage of product

## SECTION 3. Composition/information on ingredients

3.1 Substances Material does not meet the criteria of a substance

3.2 Mixtures MCT oil (Caprylic capric triglyceride), DL-alpha-tocopherol, Vitamin D2

Substance Name	CAS No	Ec No	Content ratio W/W %	Classification according Regulation with 29 CFR 1910 (OSHA HCS)
MCT Oil (Caprylic Capric triglyceride)	65381-09-1 73398-61-5	265-724-3	90.0 - 97.0%	Not classified as hazardous substance
DL-alpha Tocopherol	10191-41-0	233-466-0	≤5.0%	Skin sensitization Category 1B
Vitamin D2 (Ergocalciferol)	50-14-6	200-014-9	2.5 – 3.0%	Acute Toxicity oral category: 2 Acute Toxicity Dermal category: 3 Acute Toxicity inhalation category: 2 Single Target Organ Toxicity Repeated Exposure 1



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## **SECTION 4: First aid measures**

### **4.1 Description of necessary first-aid measures**

#### **4.1.1 General information:**

Immediately remove contaminated clothing. If adverse health develops seek medical attention.

#### **On inhalation:**

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

#### **On skin contact:**

Wash with soap and water for at least 15 minutes' while removing contaminated clothing and shoes. Get medical attention if irritation develops

#### **On eye contact:**

Check for and remove any contact lenses. In case of Contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

#### **On ingestion:**

DO NOT induce vomiting unless directed to do So by medical practitioner. Never give anything by mouth to an unconscious person. Get medical aid.

### **4.2 Most important symptoms/effects, acute and delayed**

#### **Symptoms/effects**

Nausea, vomiting and diarrhoea, weight loss, irritability, weakness, fatigue, lassitude, and headache

### **4.3 Indication of immediate medical attention and special treatment needed**

**Treatment:** Symptomatic treatment (decontamination, vital functions).

The treatment of hypervitaminosis D with hypercalcemia consists in immediate withdrawal of the vitamin, a low calcium diet, generous intake of fluids, along with symptomatic and supportive treatment.

Hypercalcaemic crisis with dehydration, stupor, coma, and azotaemia requires more vigorous treatment. The first step should be hydration of the patient. Intravenous saline may quickly and significantly increase urinary calcium excretion. A loop diuretic (furosemide or ethacrynic acid) may be given with the saline infusion to further increase renal calcium excretion. Other reported therapeutic measures include dialysis or the administration of citrates, sulphates, phosphates, corticosteroids, EDTA (ethylenediaminetetraacetic acid), and mithramycin via appropriate regimens.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media:**

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or chemical foam.

#### **Unsuitable extinguishing media:**

Water jet

### **5.2 Special hazards arising from the substance or mixture:**

The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/ fog. Burning produces harmful and toxic fumes



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**Hazardous combustion products:** Carbon oxides.

## 5.3 Advice for fire-fighters:

Wear self-contained, breathing apparatus and protective Clothing to prevent contact with skin and eyes. Wear appropriate NIOSH/ MSHA approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Fire-fighters should be equipped with self-contained breathing apparatus and turn-out gear

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel:

##### **Protective equipment:**

Splash goggles, full suit, Shoes, gloves. A self-contained breathing apparatus should be used to avoid Inhalation of the product. Ensure adequate ventilation.

##### **Emergency procedures:**

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150feet) in all directions. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

#### 6.1.2 For emergency responders:

Avoid contact with the skin, eyes and clothing.

Use with local exhaust ventilation.

Wear self-contained, breathing apparatus and protective Clothing to prevent contact with skin and eyes.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear safety glasses with side-shields.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

### 6.2 Environmental precautions

Do not empty into drains. Do not discharge into drains/surface waters/ground water.

### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 for containment: For small amount: Rinse away with water.

For large amounts: Sweep/shovel up. Contain with liquid binding material and dispose of

For residues: Pick up with suitable appliance and dispose of.

Dispose of absorbed material in accordance with regulations

#### 6.3.2 for cleaning up:

For small amounts: Sweep/shovel up.

For large amounts: Contain with liquid binding material and dispose of.

Pick up with suitable appliance and dispose of.



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Avoid raising dust. Dispose of absorbed material in accordance with regulations

## 6.3.3 Other information:

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

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **7.1.1 Protective measures**

##### **Advice on safe handling**

Avoid breathing vapour, mist or gas. Avoid contact with skin and eyes

Take precautionary measures against electro-static charging. Local exhaust ventilation necessary. Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas.

Avoid contact with the skin, eyes and clothing

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Prevent electrostatic charge – source of ignition should be kept well clear – fire extinguishers should be kept handy.

Avoid using tubes with push-in closures (when opened, the film of liquid trapped between tube and closure breaks and releases aerosols)

Use a vortex mixer instead of inverting tubes. Wait 30 seconds after shaking a tube before opening.

Use sealed safety cups and sealed rotors. Open cups inside a biosafety cabinet. Allow cups to sit prior to opening to allow aerosols to settle if no biosafety cabinet available

Do not empty into drains. Do not discharge into drains/surface waters/groundwater

#### **7.1.2 Advice on general occupational hygiene**

Wash thoroughly with soap and water thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Do not store in direct Sunlight, humidity, and especially to heat.

Do not breath dust. No eating, drinking, smoking or tobacco use at the place of work.

Hands and /or face should be washed before breaks and at the end of the shift.

Store work clothing separately.

Handle in accordance with good industrial hygiene and safety practice.

Keep away from food, drink and animal feeding stuffs.

Safety shower and eye wash should be available close to work area

### **7.2 Conditions for safe storage, including any incompatibilities**

The product should be stored at room temperature & dry conditions in the unopened original packaging.

Contents should be used immediately after opening. Protect contents from the effects of light, atmospheric oxygen, strong oxidizing agents, reducing agents, strong acids, strong bases.



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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **8.1.1 Occupational exposure limit(s)**

Substance name	CAS No	Occupational exposure Limits
Caprylic Capric triglyceride (MCT Oil)	65381-09-1 73398-61-5	No data available
DL-alpha-tocopherol	10191-41-0	OSHA- PEL: 10 mg/m <sup>3</sup> (Total dust) TWA: 5 mg/m <sup>3</sup> (Respirable dust)
Vitamin D2 (Ergocalciferol)	50-14-6	No data available

### **8.2 Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials

### **8.3 Individual protection measures, such as Personal protective equipment (PPE)**

#### **Eye / Face protection:**

Wear chemical safety goggles and/or a full-face shield. Maintain eye wash fountain in work area.

#### **Skin protection:**

Shoes, gloves, lab coat, apron or coveralls, as appropriate, to protect skin contact.

**Hand protection:** Wear chemical resistant protective gloves.

**Body protection:** Wear impervious protective clothing, including shoes, gloves, lab coat, apron or coveralls, as appropriate, to protect skin contact.

**Respiratory protection:** Breathing protection if breathable aerosols are formed. Wear a NIOSH-certified (or equivalent) Particulate.

**Thermal hazards:** No data available



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## **SECTION 9. Physical and chemical properties and safety characteristics**

### **9.1 Basic physical and chemical properties**

Property	Remarks/Guidance
Appearance Physical state	Liquid
Colour	Yellow
Odour	None
Meltingpoint/freezingpoint	-10°C to -16°C (For melting)
Initial boiling point/boiling range	269°C (For MCT Oil)
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	250°C (For MCT Oil)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility(ies)	Not soluble in water Soluble in oils and fats Soluble in lipophilic solvents
Partition- coefficient: n-Octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative Vapour density	0.90-0.95 g/cm <sup>3</sup> (25°C)
Particle Characteristics	No data available
Oxidising properties	Oxidizes in presence of oxygen when kept in open conditions
Viscosity Dynamic	≤100 Cp at ambient temperature.

**9.2 Other information** No data available

## **SECTION 10: Stability and Reactivity**

### **10.1 Reactivity**

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

### **10.2 Chemical stability**

No hazardous reactions when stored and handled according to instructions



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## 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions

## 10.4 Conditions to avoid

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

## 10.5 Incompatible materials

Atmospheric oxygen, Strong oxidizing agents, reducing agents, strong acids, strong bases

## 10.6 Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity estimate:

LD<sub>50</sub> Value Oral : 333.33 mg/kg (Rat)

LD<sub>50</sub> Value Dermal : 2033.33 mg/kg (Rat)

LC<sub>50</sub> value Inhalation : 1.66mg/l

#### Information on: Vitamin D2

Dermal LD50 Rat 61 mg/kg

Oral LD50 Rat 10 mg/kg.

#### Skin corrosion/ irritation

Classification not possible

#### Serious eye damage/irritation

Classification not possible

#### Respiratory or skin sensitisation

Mixture may cause sensitization to skin

#### Information on DL alpha tocopherol

Skin sensitisation potential of D, L-alpha-tocopherol was investigated in the Open Epicutaneous Test (OET), which was carried out in the albino Guinea pig (OECD guideline 406, non-GLP; Csato, 1997).

During the induction phase of sensitisation, the test article was applied epicutaneously onto the skin of the test animals 5 days a week for 4 consecutive weeks. The test article induced slight to strong irritant skin reactions in the experimental animals after repeated application during the induction treatment.

Considering the above experimental data, it can be concluded that topically applied D,L-alpha-tocopherol revealed a skin sensitizing potential at higher concentrations (> 3%) in Guinea pigs and in the mouse LLNA. However, cutaneous exposure to D, L-alpha-tocopherol at lower (non-irritating) concentrations (< = 1 % in Guinea pigs and < = 3% in mice) did not result in sensitisation responses, and accordingly, is unlikely to give rise to skin sensitisation in man

#### Germ cell mutagenicity

Mixture is not a mutagen





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## **Carcinogenicity**

Mixture is not carcinogenic

## **Reproductive Toxicity**

Mixture is not a reproductive effector

**STOT-Single Exposure** : No data available

Information on: Vitamin D2

## **STOT-repeated Exposure:**

Causes damage to organs (kidney, bone) through prolonged or repeated exposure.

## **Aspiration Hazard**

No data available

## **11.2 Information on the likely routes of exposure**

### **Inhalation:**

Inhalation of mist may cause respiratory irritation .Prolonged inhalation may be harmful.

### **Skin contact:**

No adverse effects due to skin contact are expected.

### **Eye contact:**

Mist spill in the eyes will cause irritation.

### **Ingestion**

Expected to be a low ingestion hazard.

## **11.3 Symptoms related to the physical, chemical and toxicological characteristics**

Vitamin D analogs: Hypercalcemia. Gastrointestinal disturbances. Dry mouth. Metallic taste. Bone or muscle pain. Tiredness. Weakness. Headache. Confusion. Irregular heartbeat.

## **11.4 Delayed and immediate effects and also chronic effects from short term and long-term exposure.**

No data available

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

No Eco toxicity data noted for the ingredient(s).

### **12.2 Persistence and degradability:**

No data available

### **12.3 Bio accumulative potential:**

No data available

### **12.4 Mobility in soil:**

No data available

### **12.5 Other adverse effects:**

No data available



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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods.**

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 after burner and scrubber. Observe all federal, state, and local environmental regulations

## **SECTION 14: Transport information**

Regulation		Land transport (DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1	UN No.	Not regulated as dangerous goods	Not regulated as dangerous goods	Not regulated as dangerous goods
14.2	UN Proper shipping name			
14.3	Transport hazardclass(es)			
	Hazard label(s)			
14.4	Packing group			
14.5	Environmental hazards	-----	-----	-----

### **14.6 Special precautions for user**

None

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

US regulations

TSCA section 12(b) Export notification (40 CFR 707, subpt. D): Not Regulated

CERCLA Hazardous substances list (40 CFR 302.4): Not listed

SARA 304 Emergency release notification.: Not Regulated

## **SECTION 16: Other information**

### **16.1 Preparation information**

Product code : II/ Vitamin D21MIU/g /02

Version : 000

Effective Date : 23.04.2020

Date of previous issue : -----

Prepared by : Divi's Laboratories Limited

### **16.2 Abbreviations and acronyms:**

**DOT:** Department of Transportation

**IMDG:** International Maritime Code for Dangerous Goods

**IATA:** International Air Transport Association



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**GHS:** Globally Harmonized System

**EC No:** European Community No.

**ACGIH:** American conference of governmental industrial hygienist

**OSHA:** Occupational safety & health administration

**TLV:** Threshold limit value

**TWA:** Time weighted average

**PEL:** Permissible exposure limit

**UN:** United nation

**STOT:** Specific target organ toxicity

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

**TSCA:** Toxic Substance control act

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

## 16.3 Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/36576>

<https://static.usp.org/pdf/EN/referenceStandards/msds/1239005.pdf>

<https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/132309>

## 16.4 Further information:

**Training advice:** Consult your supervisor or local safety & health Professional for required training appropriate for the safe handling, use of protective equipment, and Emergency response for this material.

### Notice to Reader

**NOTICE:** This Safety Data Sheet is based upon data considered to be accurate at the time of preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product

End of the safety data sheet