

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

#### **SECTION 1. IDENTIFICATION**

Product name : Vitamin D

Mat.-No./ Genisys-No. : 06506780160

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

\_

Address : 9115 Hague Road

46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or

Canada)

1-703-527-3887 (International)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

### **GHS Label element**

Hazard pictograms



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H318 Causes serious eye damage.

Precautionary statements : **Prevention:** 

P234 Keep only in original container.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsina.

P310 Immediately call a POISON CENTER or doctor/ physician.

P390 Absorb spillage to prevent material damage.

Storage:

P406 Store in corrosive resistant stainless steel container with a

resistant inner liner.

## Other hazards



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## PT1

## **GHS Classification**

Serious eye damage, Category 1 H318: Causes serious eye damage.

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
ethylene carbonate	96-49-1	>= 1 - < 5

### PT2

### **GHS Classification**

Corrosive to metals, Category 1 H290: May be corrosive to metals.

### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
sodium hydroxide	1310-73-2	>= 5 - < 10

### R1

## **GHS Classification**

Not a hazardous substance or mixture.

Chemical nature : Handle as potentially infectious.

### **Hazardous components**

No hazardous ingredients

### R2

## **GHS Classification**

Not a hazardous substance or mixture.

## **Hazardous components**

No hazardous ingredients

## Beads (MP)

## **GHS Classification**

Not a hazardous substance or mixture.

## **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
sucrose	57-50-1	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

: No information available.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

To prevent leaks or spillages from spreading, provide a

suitable liquid retention system.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### PT1

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### PT2

#### Components with workplace control parameters

•	•			
Components	CAS-No.	Value type (Form of	Control parameters /	Basis
		exposure)	Permissible concentration	
			concentration	
sodium hydroxide	1310-73-2	С	2 mg/m3	ACGIH
		С	2 mg/m3	NIOSH REL



\/!	Davidson Data 00 40 0044	Duint Data 40 00 0044
Version 1.4	Revision Date 09-18-2014	Print Date 12-06-2014

	TWA	2 mg/m3	OSHA Z-1
	С	2 mg/m3	OSHA P0

R1

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

R2

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## Beads (MP)

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sucrose	57-50-1	TWA	10 mg/m3	ACGIH
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0

## Personal protective equipment

Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be

discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

PT1

Appearance : liquid

Colour : colourless

pH : 5.5

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Density : 1.01 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

PT2

Appearance : liquid

Colour : colourless

Odour : none

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Density : 1.01 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

R1

Appearance : liquid

Colour : colourless

Odour : none

pH : 7.8

Flash point : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Density : 1.029 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

R2

Appearance : liquid

Colour : colourless

Odour : none

pH : 8.9

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Lower explosion limit : No data available

Density : 1.013 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Beads (MP)

Appearance : liquid

Colour : colourless

Odour : none

pH : 7.4

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Upper explosion limit : No data available

Lower explosion limit : No data available

Density : 1.01 g/cm3 (20 °C)

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Incompatible materials : No data available

Hazardous decomposition

products

: No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## PT1

### Information on likely routes of exposure

### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

## **Components:**

ethylene carbonate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,001 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Components:

### ethylene carbonate:

Remarks: May cause skin irritation in susceptible persons.

### Serious eye damage/eye irritation

Causes serious eye damage.

### **Product:**

Remarks: May cause irreversible eye damage.

#### Components:

## ethylene carbonate:

Result: Risk of serious damage to eyes. Remarks: May cause irreversible eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### **Components:**

#### ethylene carbonate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

## ethylene carbonate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

### ethylene carbonate:

No data available

### PT2

#### Information on likely routes of exposure

#### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

### **Product:**

Remarks: Extremely corrosive and destructive to tissue.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Remarks: May cause irreversible eye damage.

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

sodium hydroxide:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

## Carcinogenicity

Not classified based on available information.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

Not classified based on available information.

## **Components:**

## sodium hydroxide:

Effects on fertility

Remarks: No data available

### STOT - single exposure

Not classified based on available information.

#### **Components:**

#### sodium hydroxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

### STOT - repeated exposure

Not classified based on available information.

#### **Components:**

#### sodium hydroxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

#### R1

### Information on likely routes of exposure

#### **Acute toxicity**

Not classified based on available information.

### **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

#### STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

R<sub>2</sub>

### Information on likely routes of exposure

### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

### Beads (MP)

## Information on likely routes of exposure

### **Acute toxicity**



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

sucrose:

Acute oral toxicity : LD50 Oral (Rat): 29,700 mg/kg

LD50 Oral (Mouse): 14,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 30 mg/l

Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate : > 5,001 mg/kg

Method: Expert judgement

#### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

### **Product:**



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

## **Components:**

#### sucrose:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

Not classified based on available information.

#### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Components:**

#### sucrose:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

### sucrose:

No data available

### **Further information**

### **Components:**

### sucrose:

Remarks: Health injuries are not known or expected under normal use.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### PT1

### **Ecotoxicity**

### **Product:**

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

#### Components:

## ethylene carbonate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

aquatic invertebrates Exposure time: 48 h

Toxicity to bacteria : EC50 (Pseudomonas putida): > 10,000 mg/l

Exposure time: 17 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

## Persistence and degradability

No data available

### Bioaccumulative potential

## **Components:**

ethylene carbonate:

Partition coefficient: n-

octanol/water

: log Pow: -0.34

## Mobility in soil

No data available

### Other adverse effects

### **Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

## **Components:**

ethylene carbonate:

Adsorbed organic bound

halogens (AOX)

: Remarks: Not applicable

### PT2

### **Ecotoxicity**

### **Product:**

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

## **Components:**

## sodium hydroxide:



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 45.4 mg/l

Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): ca. 7 mg/l

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 40.38 mg/l

Exposure time: 48 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

## Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

## Mobility in soil

No data available

#### Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### R1

### **Ecotoxicity**

No data available

## Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

### **Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

R2

**Ecotoxicity** 

Product:

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Beads (MP)

**Ecotoxicity** 

**Product:** 

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Components:

sucrose:

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

Toxicity to fish (Chronic

toxicity)

: > 1 mg/l

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Other organisms relevant to

the environment

: No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

Components:

sucrose:

Partition coefficient: n-

octanol/water

: log Pow: -3.67

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulation

IATA-DGR

UN/ID No. : UN 1824

Proper shipping name : Sodium hydroxide solution

Class : 8 Packing group : II

Labels : Corrosives

Packing instruction (cargo

aircraft)

855



## **Vitamin D**

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

Packing instruction : 851

(passenger aircraft)

IMDG-Code

UN number : UN 1824

Proper shipping name : Sodium hydroxide solution

Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, 9

EmS Code : F-A, S-B Marine pollutant : no

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

Not applicable for product as supplied.

## **National Regulations**

**49 CFR** 

UN/ID/NA number : UN 1824

Proper shipping name : Sodium hydroxide solution

Class : 8 Packing group : II

Labels : Class 8 - Corrosive

ERG Code : 154 Marine pollutant : no

#### **SECTION 15. REGULATORY INFORMATION**

## PT1

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium hydroxide	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI

Intermediate or Final VOC's (40 CFR 60.489):

ethylene carbonate 96-49-1 4.36 %



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide 1310-73-2

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

sodium hydroxide 1310-73-2 0.04 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **Massachusetts Right To Know**

ethylene carbonate 96-49-1 1 - 5 %

### Pennsylvania Right To Know

 water
 7732-18-5
 90 - 100 %

 ethylene carbonate
 96-49-1
 1 - 5 %

 sodium hydroxide
 1310-73-2
 0 - 0.1 %

## **New Jersey Right To Know**

 water
 7732-18-5
 90 - 100 %

 ethylene carbonate
 96-49-1
 1 - 5 %

 Tween 20
 9005-64-5
 1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

### PT2

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	
		(lbs)	(lbs)
Sodium hydroxide	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

sodium hydroxide 1310-73-2 5.5 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide 1310-73-2

5.5 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Massachusetts Right To Know** 

sodium hydroxide 1310-73-2 5 - 10 %

Pennsylvania Right To Know

water 7732-18-5 90 - 100 % sodium hydroxide 1310-73-2 5 - 10 %

**New Jersey Right To Know** 

water 7732-18-5 90 - 100 % sodium hydroxide 1310-73-2 5 - 10 %

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

R1

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know



Version 1.4	Revision Date 09-18-2014		Print Date 12-06-2014	
	water 2,2'-(propane-1,3-diyldiimino)bis[2- (hydroxymethyl)propane-1,3-diol]	7732-18-5 64431-96-5	90 - 100 % 5 - 10 %	
New Jersey R	ight To Know			
	water	7732-18-5	90 - 100 %	
	2,2'-(propane-1,3-diyldiimino)bis[2- (hydroxymethyl)propane-1,3-diol]	64431-96-5	5 - 10 %	
	Albumins, human	70024-90-7	1 - 5 %	

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

R2

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI

Intermediate or Final VOC's (40 CFR 60.489):

dimethyl sulfoxide 67-68-5 0.0199 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

water	7732-18-5	90 - 100 %
2,2'-(propane-1,3-diyldiimino)bis[2-	64431-96-5	5 - 10 %
(hydroxymethyl)propane-1,3-diol]		

#### **New Jersey Right To Know**

water 7732-18-5 90 - 100 %



5 - 10 %

## Vitamin D

Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

2,2'-(propane-1,3-diyldiimino)bis[2-(hydroxymethyl)propane-1,3-diol]

64431-96-5

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

Beads (MP)

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know

water	7732-18-5	90 - 100 %
sucrose	57-50-1	1 - 5 %

## **New Jersey Right To Know**

water	7732-18-5	90 - 100 %
sucrose	57-50-1	1 - 5 %
4-(2-hydroxyethyl)piperazin-1- ylethanesulphonic acid	7365-45-9	1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

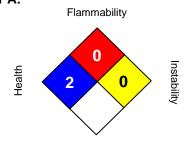


Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

## **SECTION 16. OTHER INFORMATION**

#### **Further information**

## PT1 NFPA:



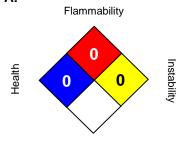
Special hazard.

## HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

## PT2 NFPA:



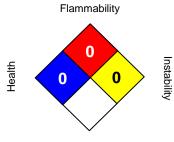
Special hazard.

## HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

- 0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

## R1 NFPA:



Special hazard.

### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

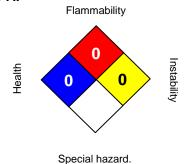
- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

R2



Version 1.4 Revision Date 09-18-2014 Print Date 12-06-2014

#### NFPA:



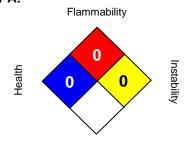
#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

## Beads (MP) NFPA:



Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

**Revision Date** : 09-18-2014

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.