



# 25-OH Vitamin D EIA Assay Reagents R1, R2, STOP, Wash Buffer, Calibrators and Controls Safety Data Sheet 1077

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/13/2015

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## SECTION 1 Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form Mixture  
Product name 25-OH Vitamin D EIA Assay  
Reagent R1, Reagent R2, Reagent STOP, Wash 20X Buffer, Calibrators and Controls  
Product code DZ688B  
DZ688B-R1, DZ688B-R2, DZ688B-ST, DZ688B-WSH, DZ688B-CAL, DZ688B-CON  
(FOR REAGENT R3 SEE SDS 1185; FOR EXTRACTION SOLUTION SEE SDS 1183)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No identified uses or uses advised against.

### 1.3. Details of the supplier of the safety data sheet

Supplier: Diazyme Laboratories  
12889 Gregg Court  
Poway, CA 92064  
T 858-455-4768

Authorized Representative:  
MDSS GmbH  
Schiffgraben 41  
Germany  
(+49) 511-6262-8630

### 1.4. Emergency telephone number

Emergency number Contact your local health authority or poison control center in an emergency. Manufacturer contact number for the US is as follows: (858) 455-4768

## SECTION 2 Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

#### Reagent STOP only

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

#### Reagent STOP only

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

H315 - Causes skin irritation  
H318 - Causes serious eye damage

Precautionary statements (GHS-US)

P264 - Wash ... thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center/doctor/...  
P321 - Specific treatment (see ... on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P362 - Take off contaminated clothing and wash it before reuse

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#### 2.3. Other hazards

No additional information available (for all components)

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

### SECTION 3 Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Hydrochloric Acid, 37% concentration	(CAS No) 7647-01-0	3.7 (Reagent STOP only)	Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion

Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact

Irritation.

Symptoms/injuries after eye contact

Serious damage to eyes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5 Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Advice for firefighters

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6 Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures

Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up

Take up liquid spill into absorbent material.

Other information

Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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#### SECTION 7 Handling and storage

##### 7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions	Store in a well-ventilated place. Keep cool.
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##### 7.3. Specific end use(s)

No additional information available

#### SECTION 8 Exposure controls/personal protection

##### 8.1. Control parameters

25-OH Vitamin D EIA Assay Reagent R1, Reagent R2, Reagent STOP, Wash 20X Buffer, Calibrators and Controls		
ACGIH	Not applicable	
OSHA	Not applicable	
Hydrochloric Acid, 37% concentration (7647-01-0)		
ACGIH	ACGIH Ceiling (ppm)	2 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

##### 8.2. Exposure controls

Appropriate engineering controls	Ensure good ventilation of the work station.
Hand protection	Protective gloves.
Eye protection	Safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	Avoid release to the environment.

#### SECTION 9 Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Mixture contains one or more component(s) which have the following colour(s): Colourless Colourless to white White Light yellow to yellow-brown
Odor	There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Irritating/pungent odour Odourless
Odor threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available

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Relative density	No data available
Relative vapor density at 20 °C	No data available
Solubility	Water Solubility in water of component(s) of the mixture : • : • : 42 g/100ml • : • :
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

#### 9.2. Other information

No additional information available

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

#### Hydrochloric Acid, 37% concentration (7647-01-0)

IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified
Symptoms/injuries after skin contact	Irritation.
Symptoms/injuries after eye contact	Serious damage to eyes.

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#### SECTION 12 Ecological information

##### 12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

##### Hydrochloric Acid, 37% concentration (7647-01-0)

LC50 fish 1	282 mg/l (96 h; Gambusia affinis; Pure substance)
EC50 Daphnia 1	< 56 mg/l (72 h; Daphnia magna; Pure substance)
LC50 fish 2	862 mg/l (Leuciscus idus; Pure substance)
TLM fish 1	282 ppm (96 h; Gambusia affinis; Pure substance)

##### 12.2. Persistence and degradability

##### Hydrochloric Acid, 37% concentration (7647-01-0)

Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

##### 12.3. Bioaccumulative potential

##### Hydrochloric Acid, 37% concentration (7647-01-0)

Log Pow	0.25 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

##### 12.4. Mobility in soil

##### Hydrochloric Acid, 37% concentration (7647-01-0)

Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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##### 12.5. Other adverse effects

Effect on the global warming

No known ecological damage caused by this product.

#### SECTION 13 Disposal considerations

##### 13.1. Waste treatment methods

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### SECTION 14 Transport information

##### Department of Transportation (DOT)

In accordance with DOT

Transport document description

UN1687 Sodium azide, 6.1, II

UN-No.(DOT)

UN1687

Proper Shipping Name (DOT)

Sodium azide

Transport hazard class(es) (DOT)

6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT)

6.1 - Poison inhalation hazard



Packing group (DOT)

II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx)

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DOT Packaging Bulk (49 CFR 173.xxx)

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DOT Special Provisions (49 CFR 172.102)	IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.
DOT Packaging Exceptions (49 CFR 173.xxx)	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	100 kg
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	36 - Stow "away from" heavy metals and their compounds,52 - Stow "separated from" acids,91 - Stow "separated from" flammable liquids

#### Additional information

Other information	No supplementary information available.
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#### ADR

No additional information available

#### Transport by sea

UN-No. (IMDG)	1687
Proper Shipping Name (IMDG)	SODIUM AZIDE
Class (IMDG)	6.1 - Toxic substances
Packing group (IMDG)	II - substances presenting medium danger

#### Air transport

UN-No. (IATA)	1687
Proper Shipping Name (IATA)	Sodium azide
Class (IATA)	6.1 - Toxic Substances
Packing group (IATA)	II - Medium Danger

### SECTION 15 Regulatory information

#### 15.1. US Federal regulations

Hydrochloric Acid, 37% concentration (7647-01-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 Subject to reporting requirements of United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

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#### National regulations

No additional information available

#### 15.3. US State regulations

Hydrochloric Acid, 37% concentration (7647-01-0)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

#### SECTION 16 Other information

Full text of H-phrases

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life

SDS US Diazyme

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*