

SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **25-Hydroxy Vitamin D**

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

This reagent is designed for the quantitative determination of 25-Hydroxy Vitamin D in human serum or plasma

using a latex-enhanced immunoturbidimetric method.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Arena BioScien, SEA
- Address of Manufacturer: Block 5, Street 9 Ismailia free zone. Ismailia- Egypt
- Telephone: +202 21813500/ +201113102057
- Email: admin@arenabioscientific.com

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725:2023)

Chemical product not classified as hazardous according to ABNT standard 14725

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	GHS Product identifier	%
sodium azide	CAS-No.: 26628-22-8	0.1 – 1

SECTION 4 First aid measures

Eye contact : - Rinse immediately with water.

- Do not apply neutralizing agents
- Consult a doctor/medical service

Skin contact : - Rinse with water

- Consult a doctor/medical service if irritation persists

After inhalation : - Remove the victim into fresh air

- Unconscious: maintain adequate airway and respiration
- Consult a doctor/medical service if breathing problems develop

After ingestion : - Never give water to an unconscious person

- Wash out mouth with water provided person is conscious
- Do not induce vomiting
- Consult a doctor/medical service if you feel unwell

Notes to physician: Treat symptomatically

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, or water spray or regular foam.

Unsuitable extinguishing media : Do not use a heavy water.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Wear recommended personal protective equipment.

SECTION 6 Accidental release measures

Personal protection: see 8

Environmental precautions:

- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Contain leaking substance, pump over in suitable containers
- Plug the leak, cut off the supply
- Dam up the liquid spill

Clean-up:

- Take up liquid spill into absorbent material
- Scoop absorbed substance into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling
- For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

SECTION 7 Handling and storage

Handling:

- Observe normal hygiene standards
- Do not discharge the waste into the drain
- Remove and clean contaminated clothing

Storage:

- Provide for a tub to collect spills
- Meet the legal requirements
- Keep away from: heat sources, acids
- Storage temperature: see component label

Specific purposes:

- NA

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product.

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.

SECTION 8 Exposure controls/personal protection (continued...)

- Wear suitable protective clothing in accordance with good chemical hygiene practices.



Gloves



Safety
Glasses



Lab Coat

SECTION 9 Physical and chemical properties

Physical state	: Liquid
Colour : (R1) -Activation Buffer	: Clear colourless liquid
(R2) - Latex reagent	: White colour suspension.
Odour	: Odourless
Odour threshold	: Not available
pH	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: Not available
Vapour pressure	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not available
Density	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

SECTION 10 Stability and reactivity

Stability: The component is stable until expiry date if stored in specified conditions (see label)

Reactivity/Hazardous decomposition products: No hazardous decomposition products are formed in high quantities

Conditions/Materials to avoid: Keep away from metals and acids (Component contains azide)

SECTION 11 Toxicological information

Sodium Azide:

Toxicity and effects

Acute toxicity: LD50 oral rat : 27 mg/kg

LD50 dermal rabbit : 20 mg/kg

Acute effects: Harmful if swallowed

Chronic toxicity: Carcinogenicity (TLV) : A4

Routes of exposure

Ingestion, inhalation, eyes and skin

Caution! These components contain a substance that is absorbed through the skin (sodium azide).

SECTION 12 Ecological information

Aquatic toxicity

Sodium azide: - LC50 (96 h) : 0.8 mg/l (SALMO GAIIRDNERI/ONCORHYNCHUS MYKISS)

- LC50 (96 h) : 0.7 mg/l (LEPOMIS MACROCHIRUS)

- LC50 (48 h) : 9 mg/l (GAMMARUS SP.)

Other information

- Effect on the ozone layer: Not dangerous for the ozone layer

- Greenhouse effect: No data available

- Effect on waste water purification: No data available

SECTION 13 Disposal considerations

Provisions relating to waste : Hazardous waste (91/689/EEC).

Packaging/container : Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

Disposal methods:

- The component must be considered as hazardous waste. It should be disposed of following local regulations.

- Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

SECTION 14 Transport information

UN Number: None assigned

UN Proper Shipping Name: Not applicable

ADR/RID – Class: Non Hazardous

IMDG – Packaging Group: Not applicable

IMDG – Class: Non Hazardous

IATA Packaging Group: Not applicable

IATA – Class: Non Hazardous

SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

SECTION 16 Other information

Date of Preparation: September 2019

Revision: Rev. 0

Replaces: New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Arena BioScien Manufacturers, SEA. Shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.