



Immunoassay Kits Beyond The Ordinary

# Material Safety Data Sheet

## 1. Name of compound/preparation and manufacturer

- 1.1. Name of product: 1,25 (OH)<sub>2</sub> Vitamin D  
1.2. Number of product 30-2112  
1.3. Manufacturer Immundiagnostik AG  
Stubenwald-Allee 8a  
64625 Bensheim  
Germany  
Distributor **ALPCO Diagnostics**  
26G Keewaydin Dr.  
Salem, NH, 03079 USA  
1.4. Manufacturer's contact phone: +49-6251-701-900  
Distributor's contact phone: (800) 592-5726  
1.5. Poison control center (US): 1-800-222-1222 (toll free)

## 2. Composition / Declaration of components

### 2.1. Chemical characterization of the preparation:

Aqueous solution

### 2.2. Dangerous ingredients

CAS-Nr.	Name	Percent	Symbol
<b>R/S Phrases</b>			
497-19-8	Sodium carbonate	0,5	Xi 36/ 22-26
247-852-1	Sodium azide	0,019	T+ 22 41 / 23 26-36
9002-93-1	Triton X 100	0,09	Xn 22-41 / 23 26 36
54-64-8	Thimerosal	0,009	T+ 26 27 28-33/2 13 28 36 45
6381-92-6	Di-Sodium-ethylene diamine tetraacetate	0,04	Xn 22 36 37 38 / 26-36
7365-44-8	Tris(hydroxymethyl)aminomethane	0,1	Xi 36 38
54827-17-7	3,3',5,5'-Tetramethylbenzidine	0,02	Xn 22/26 36 23
7664-93-9	Sulphuric acid	2,0	Xi 36 38/1 2 26 30 45

## 3. Potential risks

**Risk classification:** No dangerous goods according to directive 67/548/EWG

## 4. First aid

### 4.1. General:

Symptoms of poisoning after swallowing may appear after hours. Therefore seek medical surveillance for at least 48 hours after the accident.

### 4.2. After contact with skin:

Wash with plenty of water. Get medical aid.

### 4.3. After contact with eyes:

Hold eyes open and rinse eyes thoroughly with clean water for several minutes. Get medical aid.

### 4.4. After swallowing:

Rinse mouth thoroughly, apply plenty of water. Get medical aid.

## **5. Fire**

### **5.1. Appropriate extinguishing agent:**

The product itself is not flammable, adjust fire fighting actions to the requirements of the adjacent fire.

### **5.2. Danger derived from the product, its combustion products or gases:**

No specific risk reported.

### **5.3. Special protective devices:**

No special action required.

## **6. Involuntary release of product components**

### **6.1. Precautions related to humans:**

Avoid contact with eyes and skin.

### **6.2. Precautions related to the environment:**

Prevent entry into the drainage system. Dilute with plenty of water.

### **6.3. Procedure for cleaning up spills:**

Take up spill with absorbents. Dispose contaminated material as stated in paragraph 12.

## **7. Handling and Storage**

### **7.1. Handling:**

Open and handle contents with caution. Avoid aerolizing and spilling.

### **7.2. Recommendations regarding danger from inflammation or explosion:**

No special precautions required

### **7.3. Storage:**

No special requirements for storage.

### **7.4. Recommendations for storage with other products:**

None applicable

### **7.5. Other Information regarding storage conditions:**

The unopened box should be stored at 2-8 °C

### **7.6. Classification according to the Ordinance of Inflammable Liquids (VbF):**

None applicable.

## **8. Exposure and personal precautions**

### **8.1. Components whose concentrations in air that need to be monitored with respect to their maximum allowable concentration at the work station:**

<b>CAS-No.</b>	<b>Name</b>	<b>Mode</b>	<b>Value</b>	<b>Unit</b>
497-19-8	Sodium carbonate	MAC	1.5	mg/m <sup>3</sup>
247-852-1	Sodium azide	MAC	0.2	mg/m <sup>3</sup>
54-64-8	Thimerosal	MAC	0.01	mg/m <sup>3</sup>
7664-93-9	Sulphuric acid	MAC	1.0	mg/m <sup>3</sup>

### **8.2. Personal precautions:**

Observe general safety and hygiene precautions:

Maintain the usual precautions during the handling of chemicals.

Wear protective garments, keep away from food and beverages. Refrain from eating and drinking when handling the product. Wash hands thoroughly after handling the product and remove protective garments.

### **8.3. Inhalation protection:**

Not required.

### **8.4. Protection of hands:**

Wear protective gloves.

### 8.5. Protection of eyes:

Wear protective goggles.

## 9. Stability and Reactivity:

9.1. **Conditions to avoid:** Not specified.

9.2. **Substances to avoid:** Not specified.

9.3. **Dangerous reactions:** Not specified.

9.4. **Dangerous degradation products:** Not specified.

9.5. **Further specifications:** Contains preservatives listed in paragraph 2.

## 10. Toxicology

### 10.1. Acute Toxicity

CAS-No.	Name	Mode	Value	Species
497-19-8	Sodium carbonate	LD <sub>50</sub> (Oral)	4090 mg/kg	Rat
247-852-1	Sodium azide	LD <sub>50</sub> (Oral)	45 mg/kg	Rat
9002-93-1	Triton X 100	LD <sub>50</sub> (Oral)	707 mg/kg	Rat
54-64-8	Thimerosal	LD <sub>50</sub> (Oral)	75 mg/kg	Rat
	Di-Sodium			
	Ethylendiaminetetraacetate	LD <sub>50</sub> (Oral)	2580 mg/kg	Rat
7365-44-8	Tris(hydroxymethyl)aminomethane	LD <sub>50</sub> (Oral)	5900 mg/kg	Rat
54827-17-7	3,3',5,5'-Tetramethylbenzidine	LD <sub>50</sub> (Oral)	316 mg/kg	Rat
7664-93-9	Sulphuric acid	LD <sub>50</sub> (Oral)	2140 mg/kg	Rat

### 10.2. Further toxicological specificities:

Quantitative toxicological data are not available. It is known that a long-term exposition to mercurio-organic compounds results in neurological disorders/damage. Beware of reabsorption via the skin. A sensitive person may experience allergic reactions. Pregnant women should avoid exposure to this product.

### 10.3. Additional toxicological specificities:

This product has been classified according the classification procedure specified by the General Classification Guideline of the European Union in its current version:

**Harmful**

## 11. Ecological specifications:

### 11.1. Aqueous Toxicity:

The reagents are in general also toxic for marine organisms.

### 11.2. General Specificities:

Water pollution class I (manufacturer's classification): low potential for water pollution.

## 12. Disposal:

### 12.1. Product

This product may not be disposed of with household garbage. Do not allow entry into the drainage system. Remaining chemicals or preparations are to be disposed of as toxic waste. Please observe locally applicable regulation concerning the disposal of toxic waste. Information regarding local disposal laws are available from the local authorities.

### 12.2. Uncleaned packaging:

**Recommendation:** Dispose according to local laws.

**Recommended cleaning method:** Water; use cleaning agents if applicable.

### **13. Transport regulations:**

#### **13.1: Transport/ further remarks:**

Not classified as a hazardous good according to the guidelines specified above.

### **14. Regulations:**

#### **14.1. Labeling according to the EWG guidelines:**

This product has been classified and labeled according to the EU /GefStoffV and 67/548/EWG guidelines

#### **15. Other specifications:**

These specifications were derived from our current knowledge. These inform on the safety aspects of this product but do not constitute a declaration of product characteristics and also do not form a contractual obligation of the manufacturer.