

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 08.03.2012

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### 1. Identification of the substance/preparation and the company/undertaking

#### 1.1. Product identifier

Catalogue no.: IC3401ka  
Product name: 25-OH Vitamin D3/D2 calibrator (CAL)

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Materials for use in the appropriate testkit.

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

Company: ImmuChrom GmbH  
Lise-Meitner-Str. 13  
64646 Heppenheim  
Tel.: +49 6252 910084  
Fax: +49 6252 910070  
Email: [info@immuchrom.de](mailto:info@immuchrom.de)  
[www.immuchrom.de](http://www.immuchrom.de)

#### 1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008)

None

#### 2.2. Label elements (Regulation (EC) No 1272/2008)

Hazard pictograms (reduced labeling <125 ml)

Signal word

Hazard statements

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection  
P302+P352 If on skin: Wash with plenty of soap and 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.

#### 2.3. Other dangers

Calibrator contains human blood. It was tested and found negative for HBsAg, anti-HIV-1/2, and anti-HCV. No test can guarantee the absence of HBsAg or HIV, and so all reagents of human origin in this kit must be handled as though capable of transmitting infection. The normal precautions for laboratory working should be observed.

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### 3. Composition/information on ingredients

The mixture contains human plasma and 25-OH Vitamin D3 and 25-OH Vitamin D2.

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## 4. First aid measures

### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

#### **After inhalation:**

**After skin contact:** Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

**After eye contact:** Rinse out with plenty of water. Immediately contact a ophthalmologist.

**If swallowed :** Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately contact a physician.

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

No information available.

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

No information available

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## 5. Fire fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: none

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

Not combustible

Ambient fire may cause hazardous gases

### 5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## 6. Accidental release measures

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

Ensure adequate ventilation, observe emergency procedures, call an expert.

### 6.2. Environmental precaution

Do not empty into drains

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

Cover drains. Collect, bind and pump off spills.

### 6.4. Reference to other sections

For waste treatment refer to section 13

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## 7. Handling and storage

### 7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

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

Keep tightly closed.

Store at +2 - +8 °C.

### 7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

The composition contains no substances with exposure control.

### 8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

### Individual protection measures

**Hygiene measures:** Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

**Eye protection:** Wear safety glasses.

**Hand protection:** wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

**Respiratory protection:** Not necessary

**Environmental exposure control:** Do not empty into drains

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## 9. Physical and chemical properties

Form	liquid
Colour	yellow
Odour	bloodsmell after reconstitution
pH-Value	approx. 7
Melting point	no information available
Boiling point	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

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## 10. Stability and reactivity

### 10.1. Reactivity

No information available

### 10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions  
no information available

Violent reactions possible with:  
No degradation when using according to the specification

10.4. Conditions to avoid  
Heat, direct sunlight

10.5. Incompatible materials  
Strong bases, strong acids, powdered metals, amines, phosphohalogenides, alcohols, organic materials, strong reduction agents.

10.6. Hazardous decomposition products  
No information available

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## 11. Toxicological information

11.1. Information on toxicological effects

<b>Component</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
No information available			

Skin irritation  
none

Eye irritation  
slight irritation

Genotoxicity  
Ames test negative

Specific target organ toxicity  
No information available

Aspiration hazard  
Based on available data the classification criteria are not met

11.2. Further information  
Quantative data on toxicity of the mixture are not available

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## 12. Ecological information

12.1. Toxicity  
No information available

12.2. Persistence and degradability  
No information available

12.3. Bioaccumulative potencial  
No information available

12.4. Mobility in soil  
No information available

12.5. Results of PBT- and vPvB-assessment  
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

#### 12.6. Other adverse effects

No other effects known

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

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#### 13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

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#### 14. Transport information

Not supposed to the transport regulation

**ADR/RID**

**IATA**

**IMDG**

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#### 15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

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#### 16. Other information

Text of H-codes mentioned in section 2

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

P302+P352 If on skin: Wash with plenty of soap and 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.

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 08.03.2012

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### 1. Identification of the substance/preparation and the company/undertaking

#### 1.1. Product identifier

Catalogue no.: IC3401ko  
Product name: 25-OH Vitamin D3/D2 controls (CTRL)

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Materials for use in the appropriate testkit.

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

Company: ImmuChrom GmbH  
Lise-Meitner-Str. 13  
64646 Heppenheim  
Tel.: +49 6252 910084  
Fax: +49 6252 910070  
Email: [info@immuchrom.de](mailto:info@immuchrom.de)  
[www.immuchrom.de](http://www.immuchrom.de)

#### 1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008)

None

#### 2.2. Label elements (Regulation (EC) No 1272/2008)

Hazard pictograms (reduced labeling <125 ml)

Signal word

Hazard statements

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection  
P302+P352 If on skin: Wash with plenty of soap and 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.

#### 2.3. Other dangers

Calibrator contains human blood. It was tested and found negative for HBsAg, anti-HIV-1/2, and anti-HCV. No test can guarantee the absence of HBsAg or HIV, and so all reagents of human origin in this kit must be handled as though capable of transmitting infection.  
The normal precautions for laboratory working should be observed.

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### 3. Composition/information on ingredients

The mixture contains human plasma and 25-OH Vitamin D2 and 25-OH Vitamin D3.

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## 4. First aid measures

### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

#### **After inhalation:**

**After skin contact:** Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

**After eye contact:** Rinse out with plenty of water. Immediately contact a ophthalmologist.

**If swallowed :** Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately contact a physician.

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

No information available.

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

No information available

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## 5. Fire fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: none

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

Not combustible

Ambient fire may cause hazardous gases

### 5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## 6. Accidental release measures

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

Ensure adequate ventilation, observe emergency procedures, call an expert.

### 6.2. Environmental precaution

Do not empty into drains

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

Cover drains. Collect, bind and pump off spills.

### 6.4. Reference to other sections

For waste treatment refer to section 13

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## 7. Handling and storage

### 7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

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

Keep tightly closed.

Store at +2 - +8 °C.

### 7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

The composition contains no substances with exposure control.

### 8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

### Individual protection measures

**Hygiene measures:** Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

**Eye protection:** Wear safety glasses.

**Hand protection:** wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

**Respiratory protection:** Not necessary

**Environmental exposure control:** Do not empty into drains

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## 9. Physical and chemical properties

Form	liquid
Colour	yellow
Odour	bloodsmell after reconstitution
pH-Value	approx. 7
Melting point	no information available
Boiling point	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

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## 10. Stability and reactivity

### 10.1. Reactivity

No information available

### 10.2. Chemical stability



The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions  
no information available

Violent reactions possible with:  
No degradation when using according to the specification

10.4. Conditions to avoid  
Heat, direct sunlight

10.5. Incompatible materials  
Strong bases, strong acids, powdered metals, amines, phosphohalogenides, alcohols, organic materials, strong reduction agents.

10.6. Hazardous decomposition products  
No information available

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## 11. Toxicological information

11.1. Information on toxicological effects

<b>Component</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
No information available			

Skin irritation			
none			

Eye irritation			
slight irritation			

Genotoxicity			
Ames test negative			

Specific target organ toxicity			
No information available			

Aspiration hazard			
Based on available data the classification criteria are not met			

11.2. Further information  
Quantative data on toxicity of the mixture are not available

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## 12. Ecological information

12.1. Toxicity  
No information available

12.2. Persistence and degradability  
No information available

12.3. Bioaccumulative potencial  
No information available

12.4. Mobility in soil  
No information available

12.5. Results of PBT- and vPvB-assessment  
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

#### 12.6. Other adverse effects

No other effects known

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

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#### 13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

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#### 14. Transport information

Not supposed to the transport regulation

**ADR/RID**

**IATA**

**IMDG**

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#### 15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

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#### 16. Other information

Text of H-codes mentioned in section 2

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

P302+P352 If on skin: Wash with plenty of soap and 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.

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 26.10.2012

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### 1. Identification of the substance/preparation and the company/undertaking

#### 1.1. Product identifier

Catalogue no.: IC3401Im  
Product name: 25-OH Vitamin D3/D2 mobile phase (ELU)

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Materials for use in the appropriate testkit.

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

Company: ImmuChrom GmbH  
Lise-Meitner-Str. 13  
64646 Heppenheim  
Tel.: +49 6252 910084  
Fax: +49 6252 910070  
Email: [info@immuchrom.de](mailto:info@immuchrom.de)  
[www.immuchrom.de](http://www.immuchrom.de)

#### 1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008)

Flammable liquids (category 2)  
Acute toxicity, inhalation (category 4)  
Acute toxicity, dermal (category 4)  
Acute toxicity, oral (category 4)  
Skin irritant (category 2)  
Eye irritant (category 2)

#### 2.2. Label elements (Regulation (EC) No 1272/2008)

Hazard pictograms (reduced labeling <125 ml)



Signal word

Danger

#### Hazard statements

H225 Highly flammable liquid and vapour  
H302 Harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H332 Harmful if inhaled

#### Precautionary statements

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking  
P280 Wear protective gloves, protective clothing, eye protection  
P302+P352 If on skin: Wash with plenty of soap and 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.

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### 3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
75-05-8	200-835-2	Acetonitrile	70 - 75	225, 319, 302, 312, 332

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### 4. First aid measures

#### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

**After inhalation:** Fresh air, in case of discomfort consult a physician.

**After skin contact:** Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

**After eye contact:** Rinse out with plenty of water. Immediately contact a ophthalmologist.

**If swallowed :** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water. Immediately contact a physician.

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

No information available.

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

No information available

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### 5. Fire fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: none

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

Not combustible

Ambient fire may cause hazardous gases

#### 5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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### 6. Accidental release measures

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

Ensure adequate ventilation, observe emergency procedures, call an expert.

#### 6.2. Environmental precaution

Do not empty into drains

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

Cover drains. Collect, bind and pump off spills.

#### 6.4. Reference to other sections

For waste treatment refer to section 13

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## 7. Handling and storage

### 7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

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

Keep tightly closed.

Store at +2 - +8 °C.

### 7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

<b>CAS-Nr.</b>	<b>Description</b>	<b>MAK (TRGS 900)</b>
75-05-8	Acetonitrile	34 mg/m <sup>3</sup>

### 8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

#### **Individual protection measures**

**Hygiene measures:** Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

**Eye protection:** Wear safety glasses.

**Hand protection:** wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

**Respiratory protection:** Not necessary

**Environmental exposure control:** Do not empty into drains

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## 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	no information available
pH-Value	around 7
Melting point	no information available
Boiling point	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available

Explosive properties  
Oxidizing properties  
Other data

not explosive  
no information available  
none

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## 10. Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage condition.

### 10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

### 10.3. Possibility of hazardous reactions

no information available

Violent reactions possible with:

No degradation when using according to the specification

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Acids, Oxidizing agents, Alkali metals, Acid chlorides, Acid anhydrides, Reducing agents.

### 10.6. Hazardous decomposition products

No information available

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Component</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
No information available			
Skin irritation			
Irritant			
Eye irritation			
Irritant			
Genotoxicity			
No information available			
Specific target organ toxicity			
No information available			
Aspiration hazard			
Based on available data the classification criteria are not met			
11.2. Further information			
Quantative data on toxicity of the mixture are not available			

### 11.2. Further information

Quantative data on toxicity of the mixture are not available

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## 12. Ecological information

### 12.1. Toxicity

No information available

### 12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potencial  
No information available

12.4. Mobility in soil  
No information available

12.5. Results of PBT- and vPvB-assessment  
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.6. Other adverse effects  
No other effects known  
Danger for drinking water  
Do not allow to run into surface water, wastewater or soil.

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### 13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

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### 14. Transport information

Not supposed to the transport regulation

<b>ADR/RID</b>	UN 1648 Acetonitril, 3, II
<b>IATA</b>	UN 1648 ACETONITRIL, 3, II
<b>IMDG</b>	UN 1648 ACETONITRIL, 3, II EmS, F-E, S-D

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### 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
EU regulation  
This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment  
For this product a chemical safety assessment was not carried out

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### 16. Other information

Text of H-codes mentioned in section 2

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled

Precautionary statements

P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P280	Wear protective gloves, protective clothing, eye protection
P302+P352	If on skin: Wash with plenty of soap and 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.

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.



## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 26.10.2012

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### 1. Identification of the substance/preparation and the company/undertaking

#### 1.1. Product identifier

Catalogue no.: IC3401is  
Product name: 25-OH Vitamin D3/D2 internal standard (IS)

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Materials for use in the appropriate testkit.

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

Company: ImmuChrom GmbH  
Lise-Meitner-Str. 13  
64646 Heppenheim  
Tel.: +49 6252 910084  
Fax: +49 6252 910070  
Email: [info@immuchrom.de](mailto:info@immuchrom.de)  
[www.immuchrom.de](http://www.immuchrom.de)

#### 1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008)

Flammable liquids (category 2)  
Acute toxicity, inhalation (category 4)  
Acute toxicity, dermal (category 4)  
Acute toxicity, oral (category 4)  
Skin irritant (category 2)  
Eye irritant (category 2)

#### 2.2. Label elements (Regulation (EC) No 1272/2008)

Hazard pictograms (reduced labeling <125 ml)



Signal word

Danger

#### Hazard statements

H225 Highly flammable liquid and vapour  
H302 Harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H332 Harmful if inhaled

#### Precautionary statements

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking  
P280 Wear protective gloves, protective clothing, eye protection  
P302+P352 If on skin: Wash with plenty of soap and 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.

### 3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
75-05-8	200-835-2	Acetonitrile Internal standard	99.75 0,25	225, 319, 302, 312, 332

---

### 4. First aid measures

#### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

**After inhalation:** Fresh air, in case of discomfort consult a physician.

**After skin contact:** Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

**After eye contact:** Rinse out with plenty of water. Immediately contact a ophthalmologist.

**If swallowed :** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water. Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed  
No information available.

4.3. Indication of immediate medical attention and special treatment needed  
No information available

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### 5. Fire fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: none

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

Not combustible

Ambient fire may cause hazardous gases

#### 5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

---

### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures  
Ensure adequate ventilation, observe emergency procedures, call an expert.

#### 6.2. Environmental precaution

Do not empty into drains

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

Cover drains. Collect, bind and pump off spills.

#### 6.4. Reference to other sections

For waste treatment refer to section 13

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## 7. Handling and storage

### 7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

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

Keep tightly closed.

Store at +2 - +8 °C.

### 7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

<b>CAS-Nr.</b>	<b>Description</b>	<b>MAK (TRGS 900)</b>
75-05-8	Acetonitrile	34 mg/m <sup>3</sup>

### 8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

#### **Individual protection measures**

**Hygiene measures:** Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

**Eye protection:** Wear safety glasses.

**Hand protection:** wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

**Respiratory protection:** Not necessary

**Environmental exposure control:** Do not empty into drains

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## 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	no information available
pH-Value	around 7
Melting point	no information available
Boiling point	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available

Explosive properties  
Oxidizing properties  
Other data

not explosive  
no information available  
none

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## 10. Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage condition.

### 10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

### 10.3. Possibility of hazardous reactions

no information available

Violent reactions possible with:

No degradation when using according to the specification

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Acids, Oxidizing agents, Alkali metals, Acid chlorides, Acid anhydrides, Reducing agents.

### 10.6. Hazardous decomposition products

No information available

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Component</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
No information available			
Skin irritation			
Irritant			
Eye irritation			
Irritant			
Genotoxicity			
No information available			
Specific target organ toxicity			
No information available			
Aspiration hazard			
Based on available data the classification criteria are not met			
11.2. Further information			
Quantative data on toxicity of the mixture are not available			

### 11.2. Further information

Quantative data on toxicity of the mixture are not available

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## 12. Ecological information

### 12.1. Toxicity

No information available

### 12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potencial  
No information available

12.4. Mobility in soil  
No information available

12.5. Results of PBT- and vPvB-assessment  
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.6. Other adverse effects  
No other effects known  
Danger for drinking water  
Do not allow to run into surface water, wastewater or soil.

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### 13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

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### 14. Transport information

Not supposed to the transport regulation

<b>ADR/RID</b>	UN 1648 Acetonitril, 3, II
<b>IATA</b>	UN 1648 ACETONITRIL, 3, II
<b>IMDG</b>	UN 1648 ACETONITRIL, 3, II EmS, F-E, S-D

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### 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
EU regulation  
This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment  
For this product a chemical safety assessment was not carried out

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### 16. Other information

Text of H-codes mentioned in section 2

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled

Precautionary statements

P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P280	Wear protective gloves, protective clothing, eye protection
P302+P352	If on skin: Wash with plenty of soap and 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.

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 08.03.2012

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### 1. Identification of the substance/preparation and the company/undertaking

#### 1.1. Product identifier

Catalogue no.: IC3401fr  
Product name: 25-OH Vitamin D3/D2 precipitation reagent (PREC)

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Materials for use in the appropriate testkit.

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

Company: ImmuChrom GmbH  
Lise-Meitner-Str. 13  
64646 Heppenheim  
Tel.: +49 6252 910084  
Fax: +49 6252 910070  
Email: [info@immuchrom.de](mailto:info@immuchrom.de)  
[www.immuchrom.de](http://www.immuchrom.de)

#### 1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008)

None

#### 2.2. Label elements (Regulation (EC) No 1272/2008)

Hazard pictograms (reduced labeling <125 ml)

Signal word

Hazard statements

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection  
P302+P352 If on skin: Wash with plenty of soap and 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.

#### 2.3. Other dangers

No information available.

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### 3. Composition/information on ingredients

The mixture contains human plasma and 25-OH Vitamin D3 and 25-OH Vitamin D2.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
7783-20-2	231-984-1	Ammonia sulfate		

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## 4. First aid measures

### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

#### **After inhalation:**

**After skin contact:** Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

**After eye contact:** Rinse out with plenty of water. Immediately contact a ophthalmologist.

**If swallowed :** Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately contact a physician.

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

No information available.

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

No information available

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## 5. Fire fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: none

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

Not combustible

Ambient fire may cause hazardous gases

### 5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## 6. Accidental release measures

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

Ensure adequate ventilation, observe emergency procedures, call an expert.

### 6.2. Environmental precaution

Do not empty into drains

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

Cover drains. Collect, bind and pump off spills.

### 6.4. Reference to other sections

For waste treatment refer to section 13

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## 7. Handling and storage

### 7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

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

Keep tightly closed.

Store at +2 - +8 °C.



### 7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

The composition contains no substances with exposure control.

### 8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

### Individual protection measures

**Hygiene measures:** Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

**Eye protection:** Wear safety glasses.

**Hand protection:** wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

**Respiratory protection:** Not necessary

**Environmental exposure control:** Do not empty into drains

---

## 9. Physical and chemical properties

Form	liquid
Colour	colorless
Odour	odourless
pH-Value	no information available
Melting point	no information available
Boiling point	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

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## 10. Stability and reactivity

### 10.1. Reactivity

No information available

### 10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions  
no information available

Violent reactions possible with:  
No degradation when using according to the specification

10.4. Conditions to avoid  
Heat, direct sunlight

10.5. Incompatible materials  
Strong bases, strong acids, powdered metals, amines, phosphohalogenides, alcohols, organic materials, strong reduction agents.

10.6. Hazardous decomposition products  
No information available

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## 11. Toxicological information

11.1. Information on toxicological effects

<b>Component</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
No information available			

Skin irritation  
none

Eye irritation  
slight irritation

Genotoxicity  
Ames test negative

Specific target organ toxicity  
No information available

Aspiration hazard  
Based on available data the classification criteria are not met

11.2. Further information  
Quantative data on toxicity of the mixture are not available

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## 12. Ecological information

12.1. Toxicity  
No information available

12.2. Persistence and degradability  
No information available

12.3. Bioaccumulative potencial  
No information available

12.4. Mobility in soil  
No information available

12.5. Results of PBT- and vPvB-assessment  
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

#### 12.6. Other adverse effects

No other effects known

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

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#### 13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

---

#### 14. Transport information

Not supposed to the transport regulation

**ADR/RID**

**IATA**

**IMDG**

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#### 15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

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#### 16. Other information

Text of H-codes mentioned in section 2

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

P302+P352 If on skin: Wash with plenty of soap and 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.

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