

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 26.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC2400ka

Product name: Vitamin K1 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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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 rising.

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.

3. Composition/information on ingredients

The mixture contains human plasma and vitamin K.

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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxyde (CO₂)

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

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

8. Exposure controls/personal protection

8.1. Control parameters

The compositions 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 lyophilised Colour yellow

Odour bloodsmell after recontitution

pH-Value approx. 7

Melting pointno information availableBoiling pointno information availableFlash pointno information availableEvaporation rateno 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 no information available viscosity, dynamic no information available

Explosive properties not explosive

Oxidizing properties no information available

Other data none

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

11. Toxicological information

11.1. Information on toxicological effects

Component Type Value Species

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

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 assassment 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.

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

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

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 rising.

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

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

1.1. Product identifier

Catalogue no.: IC2400ko

Product name: Vitamin K1 control (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 www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

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 rising.

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.

3. Composition/information on ingredients

The mixture contains human plasma and vitamin K.

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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxyde (CO₂)

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

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

8. Exposure controls/personal protection

8.1. Control parameters

The compositions 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 lyophilised Colour yellow

Odour bloodsmell after recontitution

pH-Value approx. 7

Melting pointno information availableBoiling pointno information availableFlash pointno information availableEvaporation rateno 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 no information available viscosity, dynamic no information available

Explosive properties not explosive

Oxidizing properties no information available

Other data none

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

11. Toxicological information

11.1. Information on toxicological effects

Component Type Value Species

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

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 assassment 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.

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

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

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 rising.

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 version: 08.03.2012

Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC2400ex

Product name: Vitamin K1 extraction solution (EXTR)

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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

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

Flammable liquids (Category 2) Reproduction toxicity (Category 2) Danger for aspiration (Category 1)

Specific target organ toxicity - repeated exposition (Category 2)

Skin irritant (Category 2)

Specific target organ toxicity - single exposition (Category 3)

Hazardous to water, chronic (Category 2)

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

Hazard pictograms









Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child

H371 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic for water organisms

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 rising.

3. Composition/information on ingredients

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

CAS-Nr. EINECS Description Percent H-code

110-54-3 203-777-6 n Hexan 98 225, 304, 315, 336, 361, 373, 411

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself. **After inhalation:** Fresh air, Immediately call a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, Immediately consult a physician.

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

If swallowed: Give water to drink (two glases at most). Do **not** induce vomiting. Immediately consult 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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2), foam, extinguishing powder. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or the mixture Carbon oxides

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

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

8. Exposure controls/personal protection

8.1. Control parameters

 CAS-Nr.
 Description
 MAK (TRGS 900)

 110-54-3
 n-hexan
 180 mg/m³

 TWA (EU)
 72 mg/m³

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 (for n-hexan corresponding to manufacturer)

Form liquid
Colour colorless

Odour no information available

pH-Value

Melting point -94,3 °C

Boiling point 69 °C (1013 hPa)

Flash point -22 °C

Evaporation rate no information available

Flammability (solid, gas) flammable
Lower explosion limit 1,1 Vol-%
Upper explosion limit 8,1 Vol-%
Vapour pressure 2,79 (20 °C)
Relative density 0,659 g/cm³

Water solubility 0,0095 g/l (20 °C) in water

Partition coefficient: n-octanol/water 3,94 (20 °C)

Autoignition temperature Decomposition temperature Viscosity, dynamic Explosive properties Oxidizing properties Other data 240 °C no information available no information available not explosive no information available no information available

10. Stability and reactivity

10.1. Reactivity no information available

10.2. Chemical stability no information available

10.3. Possibility of hazardous reactions Strong oxidizing reagents

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials Rubber, diverse plastics

10.6. Hazardous decomposition products
Other decomposition products - no data available

11. Toxicological information

11.1. Information on toxicological effects (for n-hexan corresponding to manufacturer)

Acute oral toxicity	Type LD ₅₀ (oral)	Value 25 g/kg	Species rat
Acute inhalative toxicity	LC50	171,6 mg/l, 4 h	rat
Acute dermal toxicity	LD50	>2000 mg/kg	rabbit

Skin irritation skin irritant

Eye irritation Eye irritant

CMR effects

Might affect reproducibility

Specific target organ toxicity Might cause drowsiness

Aspiration hazard

Aspiration danger, aspiration might lead to edema and pneumonia

11.2. Further information Potential health effects

Inhalation Harmful if inhaled. May cause respiratory tract irritation. Vapours

may cause drowsiness and dizziness.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. May cause skin irritation.

Eyes Causes serious eye irritation.

Signs and symptoms of exposure

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

12. Ecological information

12.1. Toxicity (for n-hexan corresponding to manufacturer)

Spezies	Type	Value	Exposition time (h)
Fathead minnow (Pimephales promelas)	LC ₅₀ (mg/l)	2,5	96
Invertebrate (Daphnia magna)	EC_{50} (mg/l)	2,1	48

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potencial (for n-hexan corresponding to manufacturer)

Substance	Log Pow
n-Hexan	3,94

Bioaccumulation is expected because log Pow > 3

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 assassment is not required/not conducted.

12.6. Other adverse effects

No information available

13. Disposal consideration

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport information

ADR/RID UN 1208 Hexane, 3, II

IATA UN 1208 HEXANE, 3, II

IMDG UN 1208 HEXANE, 3, II

EmS, F-E, S-D

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 no information available

16. Other information

Text of H-codes m	nentioned in section 2
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs through prolonged or repeated exposure.

H411 Toxic for water organisms

Precautionary statements

Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

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 21.08.2015

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

1.1. Product identifier

Catalogue no.: IC2401is

Product name: Vitamin K1 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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

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

Flammable liquids (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

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



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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

 67-63-0
 200-661-7
 Isopropanol
 > 99,9
 225, 319, 336

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: Give water to drink (two glases at most). Immediately consult a physician.

4.2. Most important symptoms and effects, both acute and delayed Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or the mixture Carbon oxides

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

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

8. Exposure controls/personal protection

8.1. Control parameters

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

log Pow: 0,05 425,0 °C

standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form liquid
Colour colourless
Odour alcohol-like

pH-Value no information available

Melting point - 89,5 °C
Boiling point 82 °C

Flash point 12,0 °C – closed cup

Evaporation rate 3

Flammability (solid, gas) no information available

Lower explosion limit 2 % (V)
Upper explosion limit 12,7 % (V)
Vapour pressure 43,2 hPa at 20,0 °C

58,7 hPa at 25,0 °C
Relative density
0,785 g/ml at 25 °C
Water solubility
completely soluble

Partition coefficient: n-octanol/water

Autoignition temperature

Decomposition temperature no information available Viscosity, dynamic no information available

Explosive properties not explosive

Oxidizing properties Other data no information available

Surface tension

20,8 mN/m at 25,0 °C

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

no information available

10.3. Possibility of hazardous reactions

no information available

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6. Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

11.1. Information on toxicological effects (for isopropanol corresponding to manufacturer)

Component	Type	Value	Species
-	LD50 (oral)	5,045 mg/kg	rat
	LD50 (inhalation)	16000 ppm (8h)	rat
	LD50 (dermal)	12,800 mg/kg	rabbit

Skin irritation

Mild skin irritation rabbit

Eye irritation

Eye irritation – 24h rabbit

CMR effects

No information available

Specific target organ toxicity No information available

Aspiration hazard

No information available

11.2. Further information

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours

may cause drowsiness and dizziness.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes serious eye irritation.

Signs and symptoms of exposure

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

12. Ecological information

12.1. Toxicity

Species	Type	Value	Exposition time (h)
Sonnenbarsch (Lepomis macrochirus)	LC ₅₀ (mg/l)	1,4	96
Wasserfloh (Daphnia magna)	EC ₅₀ (mg/l)	13,299	48
Grünalgen	IC ₅₀ (mg/l)	>1000	72
Pseudomonas putida	EC ₅ (mg/l)	1,50	16
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12.2. Persistence and degradability

Substance t1/2 anaerob (h)

2-Propanol leicht biologisch abbaubar

12.3. Bioaccumulative potencial

Substance	Log Pow
2-Propanol	0,05

Bioaccumulation is not expected because log Pow < 1

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 assassment is not required/not conducted.

12.6. Other adverse effects

No information available

13. Disposal consideration

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport information

ADR/RID UN 1219 Isopropanol, 3, II

IATA UN 1219 ISOPROPANOL, 3, II

IMDG UN 1219 ISOPROPANOL, 3, II

EmS, F-E, S-D

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

no information available

16. Other information

Text of H-codes mentioned in section 2

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

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

1.1. Product identifier

Catalogue no.: IC2400il

Product name: Vitamin K1 isopropanolic standard (ISOP)

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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

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

Flammable liquids (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

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



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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-Nr. EINECS Description Percent H-code 67-63-0 200-661-7 Isopropanol > 99,9 225, 319, 336

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: Give water to drink (two glases at most). Immediately consult a physician.

4.2. Most important symptoms and effects, both acute and delayed Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or the mixture Carbon oxides

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

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

8. Exposure controls/personal protection

8.1. Control parameters

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 colourless
Odour alcohol-like

pH-Value no information available

Melting point - 89,5 °C
Boiling point 82 °C

Flash point 12,0 °C – closed cup

Evaporation rate 3,0

Flammability (solid, gas) no information available

Lower explosion limit 2 % (V) Upper explosion limit 12,7 % (V)

Vapour pressure 43,2 hPa at 20,0 °C 58,7 hPa at 25,0 °C

Relative density 0,785 g/ml at 25 °C Water solubility completely soluble Partition coefficient: n-octanol/water log Pow: 0,05

Autoignition temperature 425,0 °C
Decomposition temperature no information available

Viscosity, dynamic no information available

Explosive properties not explosive

Oxidizing properties

no information available

Other data Surface tension

20,8 mN/m at 25,0 °C

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

no information available

10.3. Possibility of hazardous reactions

no information available

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6. Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

11.1. Information on toxicological effects (for isopropanol corresponding to manufacturer)

Component	Type	Value	Species
	LD50 (oral)	5,045 mg/kg	rat
	LD50 (inhalation)	16000 ppm (8h)	rat
	LD50 (dermal)	12,800 mg/kg	rabbit
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Skin irritation

Mild skin irritation rabbit

Eye irritation

Eye irritation – 24h rabbit

CMR effects

No information available

Specific target organ toxicity

No information available

Aspiration hazard

No information available

11.2. Further information

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours

may cause drowsiness and dizziness.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes serious eye irritation.

Signs and symptoms of exposure

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

12. Ecological information

12.1. Toxicity

Species	Type	Value	Exposition time (h)
Sonnenbarsch (Lepomis macrochirus)	LC ₅₀ (mg/l)	1,4	96
Wasserfloh (Daphnia magna)	EC ₅₀ (mg/l)	13,299	48
Grünalgen	IC ₅₀ (mg/l)	>1000	72
Pseudomonas putida	EC ₅ (mg/l)	1,50	16

12.2. Persistence and degradability

Substance t1/2 anaerob (h)

2-Propanol leicht biologisch abbaubar

12.3. Bioaccumulative potencial

Substance	Log Pow
2-Propanol	0,05

Bioaccumulation is not expected because log Pow < 1

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 assassment is not required/not conducted.

12.6. Other adverse effects

No information available

13. Disposal consideration

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport information

ADR/RID UN 1219 Isopropanol, 3, II

IATA UN 1219 ISOPROPANOL, 3, II

IMDG UN 1219 ISOPROPANOL, 3, II

EmS, F-E, S-D

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

no information available

16. Other information

Text of H-codes mentioned in section 2

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

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

1.1. Product identifier

Catalogue no.: IC2400lm

Product name: Vitamin K1 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 www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

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

Flammable liquid (category 2)

Eye irritant (category 2)

Specific target organ toxicity – single exposition (category 3)

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

H301+H311+H331 Fatal if swallowed, skin contact or inhaled

H315 Causes skin irritation
H320 Causes eye irritation
H370 Cause damage to organs

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 rising.

3. Composition/information on ingredients

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

CAS-No. EINECS Description Percent H-codes 67-56-1 200-659-6 Methanol > 99.9 225, 301+311+331, 370

7647-01-0 231-595-7 Hydrochloric acid < 0.01 314, 335,290

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: Fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcolic beverage). Never give anything by mouth to an unconscious person. Immediately contact a physician. Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in conscious persons) and make victim drink ethanol again (approx.. 0.3 ml of a 40% beverage/kg body weight/hour)

- 4.2. Most important symptoms and effects, both acute and delayed Irritant effects, drowsiness, dizziness, narcosis, agitation, spasms, inebriation, nausea, vomiting, headache, blindness, impairment of vision, coma, drying out effect resulting in rough and chapped skin.
- 4.3. Indication of immediate medical attention and special treatment needed No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxyde (CO₂)

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

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

8. Exposure controls/personal protection

8.1. Control parameters

 CAS-Nr.
 Description
 MAK (TRGS 900)

 67-56-1
 Methanol
 270 mg/m³

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 (for methanol according to manufacturer)

Form liquid
Colour colourless
Odour characteristic

pH-Value no information available

Melting point -98 °C

Boiling point 64,5 °C at 1013 hPa

Flash point 11 °C

Evaporation rate no information available Flammability (solid, gas) no information available

Lower explosion limit 5.5 % (V)
Higher explosion limit 36.5 % (V)
Vapour pressure 128 hPa at 20 °C

Relative density

1.11

Water solubility

Partition coefficient: n-oktanol/water

1.01

complete
log Pow -0.77

Autoignition temperature no information available Decomposition temperature no information available viscosity, dynamic no information available

Explosive properties explosive

10. Stability and reactivity

10.1. Reactivity

Vapour might form explosive mixtures with air.

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

Risk of explosion with:

Oxidizing agents, perchloric acid, perchlorates, salts of oxyhalogenic acids, chromium(VI) oxide, halogen oxides, nitrous acid, nitrogen oxides, non-metallic oxides, chromsulfuric acid, chlorates, hydrides, zinc diethyl, halogens, magnesium, hydrogen peroxide.

Exothermic reactions with:

Acid halides, acid anhydrides, reducing agents, acids.

Generates dangerous gases or fumes with:

Alkaline earth metals, alkali metals

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid

Warming (critical from 15 Kelvin below flsh point), flames and sparks.

10.5. Incompatible materials

Various plastics, magnesium, zinc alloys.

10.6. Hazardous decomposition products

No information available

11. Toxicological information

11.1. Information on toxicological effects (for methanol corresponding to manufacturer)

Component Acute oral toxicity	Type LDLO LD50 (oral)	Value 143 mg/kg 5.628 mg/kg	Species human rat
Acute inhalative toxicity	LC50	85,26 mg/l, 4 h	rat

Acute dermal toxicity

Resorption

Eye irritation Serious irritation

Genotoxicity

Ames test negative

Specific target organ toxicity Causes damage to organs

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

Methanol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness.

12. Ecological information

12.1. Toxicity

Species	Type	Value	Exposition time (h)
Sonnenbarsch (Lepomis macrochirus)	LC ₅₀ (mg/l)	15400	96
Wasserfloh (Daphnia magna)	EC ₅₀ (mg/l)	>10000	48
Grünalgen	IC ₅₀ (mg/l)	8000	8 d
Pseudomonas	EC ₅ (mg/l)	6600	16

12.2. Persistence and degradability

Substance t1/2 anaerob (h)
Methanol 99%: 30 d

12.3. Bioaccumulative potential

Substance Log Pow Methanol -0,77

Bioaccumulation is not expected log Pow < 1

12.4. Mobilität im Boden

Keine Informationen verfügbar

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 assassment 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.

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

ADR/RID UN 1230 Methanol, 3 (6.1), II

IATA UN 1230 METHANOL, 3 (6.1), II

IMDG UN 1230 METHANOL, 3 (6.1), II

EmS, F-E, S-D

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

16. Other information

Text of H-codes mentioned in section 2

H225 Highly flammable liquid and vapour H290 Might be corrosive with metals

H301+H311+H331 Fatal if swallowed, skin contact or inhaled H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H335 May cause respiratory irritation H370 Cause damage to organs

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 rising.

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

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

1.1. Product identifier

Catalogue no.: IC2400il

Product name: Vitamin K1 precipitation solution (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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008 Flammable liquids (Category 2)

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



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep tightly closed

P280 Wear safety gloves / clothes,

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

P309+P310 In case of exposition or indisposition immediately call a doctor

P403+P235 Store at a cool and ventilated place

3. Composition/information on ingredients

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

 CAS-Nr.
 EINECS
 Description
 Percent
 H-code

 64-17-5
 200-578-6
 Ethanol
 99
 225

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: Give water to drink (two glases at most). Immediately consult a physician.

- 4.2. Most important symptoms and effects, both acute and delayed Irritant, respiratory paralysis, dizziness, narcosis, intoxication, euphoria, nausea, vomiting.
- 4.3. Indication of immediate medical attention and special treatment needed No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or the mixture Carbon oxides

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

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

8. Exposure controls/personal protection

8.1. Control parameters

CAS-Nr. Description MAK (TRGS 900) 64-17-5 Ethanol 960 mg/m³

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 colourless
Odour alcohol-like

pH-Value 7.0 at 10 g/l (20 °C) no information available Melting point Boiling point no information available Flash point 12,0 °C - closed cup Evaporation rate no information available Flammability (solid, gas) no information available Lower explosion limit no information available Upper explosion limit no information available Vapour pressure no information available

Relative density no information available no information available water solubility completely soluble Partition coefficient: n-octanol/water no information available autoignition temperature no information available no information available no information available

Viscosity, dynamic Explosive properties Oxidizing properties Other data Surface tension no information available no information available no information available

no information available

10. Stability and reactivity

10.1. Reactivity

Vapour can for explosive mixtures with air

10.2. Chemical stability

no information available

10.3. Possibility of hazardous reactions

Explosion hazard with:

Oxidative agents, perchloric acid, perchlorate, chrome(VI)-oxide, halogen-halogenbonds, sulphuric acid, potassium permanganate, Nitric acid, uranhexafluoride, nitrogen dioxide, phosphor oxide, permanganic acid, fluor, ethylenoxid, chromsulfuric acid, chromylchloride, hydrogen peroxide, alkolioxide, eartalkalimetalls, alkalimetalls.

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Rubber, different plastics

10.6. Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

11.1. Information on toxicological effects (for ethanol corresponding to manufacturer)

Component	Туре	Value	Species
	LD50 (oral)	6200 mg/kg	rat
	LC50	95.6 mg/l, 4 h	rat

Skin irritation

No skin irritation rabbit

Eye irritation

Eye irritation rabbit

CMR effects

No information available

Specific target organ toxicity

No information available

Aspiration hazard

No information available

11.2. Further information

No information available

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 assassment is not required/not conducted.

12.6. Other adverse effects

No information available

13. Disposal consideration

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport information

ADR/RID UN 1170 Ethanol, 3, II

IATA UN 1170 ETHANOL, 3, II

IMDG UN 1170 ETHANOL, 3, II

EmS, F-E, S-D

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

no information available

16. Other information

Text of H-codes mentioned in section 2

H225 Highly flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep tightly closed

P280 Wear safety gloves / clothes,

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

P309+P310 In case of exposition or indisposition immediately call a doctor

P403+P235 Store at a cool and ventilated place

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

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

1.1. Product identifier

Catalogue no.: IC2400zi

Product name: Vitamin K1 zinc (ZINC)

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

www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008 Self-heating substance (Category 1)

Substance, which emits flammable gases by conact with water (Category 2)

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



Signal word Danger

Hazard statements

H251 Self-heating; may catch fire

H261 In contact with water releases flammable gas

Precautionary statements

P231 + P232 Handle under inert gas. Protect from humidity

P235 + P410 Keep cool, Protect from sunlight

P422 Store under inert gas

3. Composition/information on ingredients

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

CAS-Nr. EINECS Description Percent H-codes 7440-66-6 231-175-3 Zink 99,9 251, 261

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: Give water to drink (two glases at most). Immediately consult a physician.

4.2. Most important symptoms and effects, both acute and delayed Central nervous system depression, prolonged or repeated exposure can cause: Nausea, headache, vomiting, narcosis, drowsiness, overexposure may cause mild, reversible liver effects.

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

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Powder

5.2. Special hazards arising from the substance or the mixture Zinc/zinc oxides

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

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. Avoid contact with humidity/water during storage.

Store at +20 - +25 °C.

7.3. Specific end uses

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

8. Exposure controls/personal protection

8.1. Control parameters

None

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 granules Colour grey

Odour no information available pH-Value no information available

Melting point 420 °C Boiling point 907 °C Flash point

no information available Evaporation rate no information available Flammability (solid, gas) no information available Lower explosion limit no information available Upper explosion limit no information available Vapour pressure no information available Relative density 7.133 g/cm3 at 25 °C Water solubility no information available no information available

Partition coefficient: n-octanol/water

Autoignition temperature Decomposition temperature

no information available Viscosity, dynamic 2.2 mPa.s bei 20 °C Explosive properties no information available

Self-heating (category 1)

10. Stability and reactivity

10.1. Reactivity no information available

10.2. Chemical stability no information available

10.3. Possibility of hazardous reactions Reacts severe with water

10.4. Conditions to avoid Humidity

10.5. Incompatible materials
Acids, strong bases, chlorides, fluor, nitrates, carbon disulfit.

10.6. Hazardous decomposition products
Other decomposition products - no data available

11. Toxicological information

11.1. Information on toxicological effects

Component Type Value Species no information available

Old a destruction

Skin irritation no information available

Eye irritation no information available

CMR effects No information available

Specific target organ toxicity No information available

Aspiration hazard No information available

11.2. Further information no information available

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 assassment is not required/not conducted.

12.6. Other adverse effects No information available

13. Disposal consideration

Product

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14. Transport information

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ADR/RID

IATA

IMDG

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