

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 21.05.2019 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.: IC1800ka  
Product name: Glutathione 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 blood and glutathione.

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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	red
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: 21.05.2019 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.: IC1800ko  
Product name: Glutathione 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

Controls 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 blood and glutathione.

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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 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

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## 9. Physical and chemical properties

Form	liquid
Colour	red
Odour	bloodsmell after recontitution
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: 21.05.2019 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.: IC1800vl  
Product name: Glutathione dilution solution (DIL)

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 the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes
7778-77-0	231-913-4	Potassiumdihydrogenphosphate	< 1	

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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	colourless
Odour	none
pH-Value	approx. 5
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

No information available.

#### 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			
none			
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: 21.05.2019 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.: IC1800is  
Product name: Glutathione 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  
Reproductive toxicity (Category 1B)

2.2. Label elements (Regulation (EC) No 1272/2008  
Hazard pictograms (reduced labeling <125 ml)



Signal word  
Danger

#### Hazard statements

H360FD May damage fertility. May damage the unborn child

#### 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 the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes
12045-78-2	215-575-5	Potassiumtetraborate Internal standard	< 2 <0,1	H360FD

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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, consult a physician.

**After skin contact:** Wash with plenty of water, remove contaminated clothing, 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 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

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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 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

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### 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	none
pH-Value	approx. 8
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

No information available.

### 10.6. Hazardous decomposition products

No information available

---

## 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			
No information available			
Eye irritation			
No information available			
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			

### 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 potential

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.

---

### 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

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### 16. Other information

Text of H-codes mentioned in section 2

H360FD                      May damage fertility. May damage the unborn child

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.

---

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: 21.05.2019 replaces version from 14.02.2014

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

#### 1.1. Product identifier

Catalogue no.: IC1800Im  
Product name: Glutathione 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

### 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

Warning

#### 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 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
67-56-1	200-659-6	Methanol	< 25	225, 301+311+331, 370

---

#### 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

---

#### 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

---

#### 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

<b>CAS-Nr.</b>	<b>Description</b>	<b>MAK (TRGS 900)</b>
67-56-1	Methanol	270 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

---

## 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	2,25
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

---

## 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

---

### 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  
Slight irritation

Eye irritation  
Serious 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

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

No information available

#### 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

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.

---

### 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

<b>ADR/RID</b>	UN 1230 Methanol, 3 (6.1), II
<b>IATA</b>	UN 1230 METHANOL, 3 (6.1), II
<b>IMDG</b>	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  
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 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: 21.05.2019 replaces version from 08.03.2012

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

#### 1.1. Product identifier

Catalogue no.: IC1800fr  
Product name: Glutathione 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](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

### 2. Hazards identification

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

Irritant

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

Hazard pictograms (reduced labeling <125 ml)



Signal word

Warning

#### Hazard statements

H315 Causes skin irritation  
H319 Causes serious eye irritation

#### 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.

### 3. Composition/information on ingredients

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

CAS-No.	EINECS	Description	Percent	H-codes
7601-90-3	231-512-4	Perchloric acid	5 - 15	H315, H319

## 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. 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 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

---

## 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 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	colourless
Odour	odourless
pH-Value	approx. 1
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

---

## 10. Stability and reactivity

### 10.1. Reactivity

has a corrosive effect

Oxidising agents

## 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

no information available

## 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

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

Skin irritation  
Irritation

Eye irritation  
Serious irritation

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

---

## 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.

---

#### 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 3264 ÄTZENDER SAURER ANORGANISCHER FLÜSSIGER STOFF, N.A.G; 8; III

**IATA** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N,O,S; 8, III,

**IMDG** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N,O,S; 8, III,

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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

---

#### 16. Other information

Text of H-codes mentioned in section 2

H315 Causes skin irritation

H319 Causes serious eye irritation

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.

---

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: 21.05.2019 replaces version from 08.03.2012

---

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

#### 1.1. Product identifier

Catalogue no.: IC1800ra  
Product name: Glutathione reaction buffer (REAC)

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

---

### 2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008  
Reproductive toxicity (Category 1B)

2.2. Label elements (Regulation (EC) No 1272/2008  
Hazard pictograms (reduced labeling <125 ml)



Signal word  
Danger

#### Hazard statements

H360FD May damage fertility. May damage the unborn child

#### 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

---

### 3. Composition/information on ingredients

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

CAS-No.	EINECS	Description	Percent	H-codes
12045-78-2	215-575-5	Potassiumtetraborate	< 2	H360FD

---

### 4. First aid measures

#### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

**After inhalation:** Fresh air, consult a physician.

**After skin contact:** Wash with plenty of water, remove contaminated clothing, 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 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: 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

---

### 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	liquid
Colour	colourless
Odour	none
pH-Value	approx. 8
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

---

## 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

No information available.

### 10.6. Hazardous decomposition products

No information available

---

## 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			
Eye irritation			
Genotoxicity			
Specific target organ toxicity			
Aspiration hazard			
11.2. Further information			

### 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 potential

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.

---

### 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

H360FD                      May damage fertility. May damage the unborn child

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.

---

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: 21.05.2019 replaces version from 08.03.2012

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

#### 1.1. Product identifier

Catalogue no.: IC1800rl  
Product name: Glutathione reduction solution (RED)

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

### 2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008  
Reproductive toxicity (Category 1B)

2.2. Label elements (Regulation (EC) No 1272/2008  
Hazard pictograms (reduced labeling <125 ml)



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage  
H360FD May damage fertility. May damage the unborn child

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

### 3. Composition/information on ingredients

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

CAS-No.	EINECS	Description	Percent	H-codes
12045-78-2	215-575-5	Potassiumtetraborate	< 2	H360FD
51805-45-9		Tris(2-carboxyethyl)phosphine	< 2	H314

## 4. First aid measures

### 4.1. Description of first aid measures

General advice: First aider needs to protect himself.

**After inhalation:** Fresh air, consult a physician.

**After skin contact:** Wash with plenty of water, remove contaminated clothing, 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 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

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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 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

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## 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	no information available
pH-Value	approx. 8
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

No information available.

#### 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

No information available

Eye irritation

No information available

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

H314 Causes severe skin burns and eye damage

H360FD May damage fertility. May damage the unborn child

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.