

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 05.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC1900ka

Product name: Malondialdehyde 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 Malondialdehyde.

#### 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 (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 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: 05.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC1900ko

Product name: Malondialdehyde 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

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 Malondialdehyde.

#### 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 (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 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: 05.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC1900dl

Product name: Malondialdehyd derivatisation solution (DERIVAT)

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 3) Skin corrosion (category 1A)

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





## Signal word Danger

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation H226 Flammable liquid and vapour H335 May cause respiratory 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 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 of pure substance
6131-90-4	204-823-8	Sodium acetate		
64-19-7	200-580-7	Acetic acid		H314, H226
504-17-6	207-985-8	Thiobabituric acid	<0,25	

#### 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 dioxyde (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

CAS-Nr. Description

#### 8.2. Exposure controls

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

**MAK (TRGS 900)** 

## 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

#### Physical and chemical properties

Form liquid
Colour slight red
Odour pungent
pH-Value around 4

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 no information available

Oxidizing properties
Other data

no information available 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

Oxidizing agents, soluble carbonates and phosphate, hydroxides, metals, peroxides, permanganates, amines, alcohols.

#### 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

Irritant

Eye irritation

Irritant

Genotoxicity

No information available

Specific target organ toxicity

No information available

Aspiration hazard

Based on available data the classification criteria are not met

#### 11.2. Further information

Quantative data on toxicity of the mixture are not available

## 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 UN 2790 Acetic acid solution, 8, II

IATA UN 2790 ACETIC ACID SOLUTION, 8, II

IMDG UN 2790 ACETIC ACID SOLUTION, 8, 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 H315 Causes skin irritation

H319 Causes serious eye irritation H226 Flammable liquid and vapour H335 May cause respiratory 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 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: 05.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC1900lm

Product name: Malondialdehyd 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 liquids (category 2)

Acute toxicity, inhalation (category 4)

Acute toxicity, dermal (category 4

Acute toxicity, oral (category 4)

Skin irritant (category 2)

Eye irritant (category 2)

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



# Signal word Warning

## Hazard statements

H225 Highly flammable liquid and vapour

H302 Harmful if swallowed H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

#### Precautionary statements

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

P280 Wear protective gloves, protective clothing, eye protection

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue 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 of pure substance
75-05-8	200-835-2	Acetonitrile	< 18	225, 319, 302, 312, 332
7778-77-0	231-913-4	Potassiumdihydrogenphosphate	< 1	

#### 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 dioxyde (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

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

#### 8.2. Exposure controls

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

## **Individual protection measures**

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

**Eye protection:** Wear safety glasses.

Hand protection: wear safety gloves

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

standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

# 9. Physical and chemical properties

Form liquid
Colour colourless
Odour odourless
pH-Value around 2

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 Oxidizing properties Other data not explosive no information available 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

Component Type Value Species

No information available

Skin irritation

Irritant

Eye irritation

Irritant

Genotoxicity

No information available

Specific target organ toxicity

No information available

Aspiration hazard

Based on available data the classification criteria are not met

#### 11.2. Further information

Quantative data on toxicity of the mixture are not available

## 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 UN 1648 Acetonitril, 3, II

IATA UN 1648 ACETONITRIL, 3, II

IMDG UN 1648 ACETONITRIL, 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

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

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H320 Causes eye irritation H332 Harmful if inhaled

## Precautionary statements

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

P280 Wear protective gloves, protective clothing, eye protection

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue 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: 05.07.2019 replaces version from 08.03.2012

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

1.1. Product identifier

Catalogue no.: IC1900rl

Product name: Malondialdehyd reaction solution (REAL)

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 3)

Eye irritant (category 2)

Specific target organ toxicity – single exposure, category 3, H335 Specific target organ toxicity – single exposure, category 3, H336

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



# Signal word Warning

## Hazard statements

H226 Flammable liquid and vapour H319 Causes serious eye irritation

H335 + H336 May cause respiratory irritation, and drowsiness or dizziness

#### Precautionary statements

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

P280 Wear protective gloves, protective clothing, eye protection

P304 + P340 If inhaled: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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 of pure substance

 78-92-2
 201-158-5
 2-Butanol
 >98
 226, 319, 335+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 :** 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 dioxyde (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.

#### 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)** 

#### 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

#### Physical and chemical properties

Form liquid
Colour colourless
Odour alcohol like
pH-Value around 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 no information available

Oxidizing properties Other data no information available 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

Aluminium, rubber, various plastics

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

Irritant

Eye irritation

Irritant

Genotoxicity

No information available

Specific target organ toxicity

No information available

Aspiration hazard

Based on available data the classification criteria are not met

11.2. Further information

Quantative data on toxicity of the mixture are not available

## 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 UN 1120 BUTANOLS, 3, III

IATA UN 1120 BUTANOLS, 3, III

IMDG UN 1120 BUTANOLS, 3, III

EmS, F-E, S-D

#### 15. Regulatory information

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lenses, if present and easy to do. Continue rising.

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