

Epi proColon PCR Mix

Print date 07.06.2017
Revision date 07.06.2017
Version 5.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Epi proColon PCR Mix

Article no. (user): Epi proColon Sensitive PCR Kit (M5-02-002)

Other means of identification

SDS 0021

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

Epi proColon Sensitive PCR Kit (M5-02-002)

Product categories [PC]

PC21 Laboratory chemicals

Process categories [PROC]

PROC15 Use as laboratory reagent

1.3 Details of the supplier of the safety data sheet

Importer/Only Representative

Epigenomics AG

Geneststrasse 5

D-10829 Berlin

P.O. Box: ---

Telephone: +49 (0)30 24345-0 (9:00 - 16:30)

Telefax: +49 (0)30 24345-555

E-mail: contact@epigenomics.com

www.epigenomics.com

1.4 Emergency telephone number

Giftnotruf Berlin: +49 (0)30 30686-700 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

remark

This mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

remark

Full text of R-, H- and EUH-phrases: see section 16.

3.1/3.2 Substances/Mixtures

Hazardous ingredients

2-Amino-2-hydroxymethyl-propane-1,3-diol	<1 %
CAS 77-86-1	
EC 201-064-4	
Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂)

Extinguishing powder

Water spray

alcohol resistant foam

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x)

Carbon monoxide

Carbon dioxide (CO₂)

Hydrogen chloride (HCl)

5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures

Remove persons to safety. Provide adequate ventilation.

Personal precautions

Avoid dust formation. Use personal protection equipment.

Protective equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders

Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Suppress gases/vapours/mists with water spray jet. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Absorbing material, organic

For cleaning up

Suitable material for diluting or neutralizing:

Water

6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing. Avoid contact with skin, eyes and clothes.

Protective measures

Advices on safe handling

Avoid:

Inhalation of vapours or spray/mists

Skin contact

Eye contact

Measures to prevent fire

The product is not:

Combustible

Explosive

No special fire protection measures are necessary.

Environmental precautions

See section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed.

Hints on joint storage

Storage class

Non-combustible liquids

Further information on storage conditions

storage temperature -25 - -15 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

Additional information

Preventive industrial medical examinations are to be offered.

8.1 Control parameters

remark

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

refer to chapter 7. No further action is necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses with side protection

Skin protection

Suitable gloves type:

Disposable gloves

Suitable material:

NR (natural rubber, natural latex)

NBR (Nitrile rubber)

Required properties:

liquid-tight

additional hand protection measures

Check leak tightness/impermeability prior to use.

remark

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Body protection:

Suitable protective clothing:

lab coat

Recommended material:

Natural fibres (e.g. cotton)

Respiratory protection

Respiratory protection necessary at:

prolonged exposure

aerosol or mist formation

Suitable respiratory protection apparatus:

Full-/half-/quarter-face masks (DIN EN 136/140)

ABEK-P1

remark

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

	parameter	Method - source - remark
pH	8,2 - 8,5	Temperature 20 °C
Melting point/freezing point		not determined
Initial boiling point and boiling range		not determined
Flash point (°C)		No flash point according to standard method.
Evaporation rate		not determined
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Vapour pressure		not determined
Vapour density		not determined
Density		not determined
Fat solubility (g/L)		not determined
Water solubility (g/L)		completely miscible
Soluble (g/L) in		not determined
Partition coefficient: n-octanol/water		not determined

parameter	Method - source - remark
Auto-ignition temperature	not determined
Decomposition temperature	not determined

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Materials to avoid

Alkali (lye)

Oxidising agent

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

ingredient 2-Amino-2-hydroxymethyl-propane-1,3-diol

Acute oral toxicity 5900 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

slightly irritant but not relevant for classification.

Eye damage/irritation

In vitro eye test

Irritating to eyes.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

STOT-single exposure

STOT SE 3

exposure route

inhalative

Assessment/classification

May cause respiratory irritation.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

May cause respiratory irritation.

SECTION 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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Appropriate disposal / Package

Completely emptied packings can be re-cycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			

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Land transport (ADR/RID)

Sea transport (IMDG)

Air transport (ICAO-TI / IATA-DGR)

14.7 Transport in bulk according to
Annex II of MARPOL 73/78 and the
IBC Code

Additional information**All transport carriers**

Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

SECTION 16: Other information**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Relevant R-, H- and EUH-phrases (Number and full text)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R36/37/38 Irritating to eyes, respiratory system and skin.

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Epi proColon Polymerase

Print date 07.06.2017
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Epi proColon Polymerase

Article no. (user): Epi proColon Sensitive PCR Kit (M5-02-002)

Other means of identification

SDS 0022

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

Epi proColon Sensitive PCR Kit (M5-02-002)

Product categories [PC]

PC21 Laboratory chemicals

Process categories [PROC]

PROC15 Use as laboratory reagent

1.3 Details of the supplier of the safety data sheet

Importer/Only Representative

Epigenomics AG

Geneststrasse 5

D-10829 Berlin

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1.4 Emergency telephone number

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

remark

This mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

No data available

Hazardous ingredients

Epi proColon Polymerase

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing.

Following inhalation

Provide fresh air.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

No data available

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Special protective equipment for firefighters:

protective clothing. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Use personal protection equipment.

6.2 Environmental precautions

No special environmental measures are necessary.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Absorbing material, organic

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For cleaning up

Suitable material for diluting or neutralizing:

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing. Avoid contact with skin, eyes and clothes.

Protective measures

Advices on safe handling

Avoid:

Inhalation of vapours or spray/mists

Skin contact

Eye contact

Measures to prevent fire

The product is not:

Combustible

Explosive

No special fire protection measures are necessary.

Environmental precautions

See section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed.

Hints on joint storage

Storage class

Non-combustible liquids

Further information on storage conditions

storage temperature -25 - -15 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

Additional information

Preventive industrial medical examinations are to be offered.

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8.1 Control parameters

remark

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

refer to chapter 7. No further action is necessary.

Personal protection equipment

Eye/face protection

remark

Eye protection: not required.

Skin protection

Suitable gloves type:

Disposable gloves

Required properties:

liquid-tight

Body protection:

Suitable protective clothing:

lab coat

Respiratory protection

remark

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold:

odourless

	parameter	Method - source - remark
	pH	not determined
	Melting point/freezing point	not determined
	Initial boiling point and boiling range	not determined
	Flash point (°C)	No flash point according to standard method.
	Evaporation rate	not determined

Epi proColon Polymerase

Print date 07.06.2017
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parameter	Method - source - remark
flammability	not determined
Upper explosion limit	not determined
lower explosion limit	not determined
Vapour pressure	not determined
Vapour density	not determined
Density	not determined
Fat solubility (g/L)	Immiscible
Water solubility (g/L)	completely miscible
Soluble (g/L) in	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined

9.2 Other safety information

Physical hazards

Flammable solids

Assessment/classification

Non-flammable.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

skin corrosion/irritation

Assessment/classification

slightly irritant but not relevant for classification.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2.

STOT-single exposure

STOT SE 3

Irritation to respiratory tract

Assessment/classification

May cause respiratory irritation.

SECTION 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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Appropriate disposal / Package

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

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14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			

Epi proColon Polymerase

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Land transport (ADR/RID)

Sea transport (IMDG)

Air transport (ICAO-TI / IATA-DGR)

14.7 Transport in bulk according to
Annex II of MARPOL 73/78 and the
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Additional information**All transport carriers**

Not a hazardous material with respect to transportation regulations.

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