according to Regulation (EC) No. 1907/2006/EG, Article 31



Product number: M3014 Product name: PCR Mastermix (2X)

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

# 1.1. Product identifier

Product Name: PCR Mastermix (2X)

Catalogue No.: M3014
CAS Number: --EC Number: --Index Number: ---

**REACH No.:** A registration number is not available for this substance as the substance or its uses are exempted from registration,

the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

No further relevant information available.

Application of the substance/the preparation

Laboratory chemical Biochemistry Molecular biology

Not approved for human or animal diagnostic or therapeutic procedures.

Not for household use. Not for consumption

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

Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 70, 89077 Ulm/Germany. Tel.: +49 (0)731 3608 123, Fax: +49 731 3608 962, info@genaxxon.com

Further information available from: General Management

Emergency telephone number: +49 (0)731 3608 123 (Monday through Friday, between the hours of 7:30 - 18:30)

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

#### Product Use:

This product is for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

# 2. Hazardous identification

## 2.1. Classification of the substance/preparation/mixture

Classification according to Regulation (EC) No1272/2008: The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008:VoidHazard pictograms:VoidSignal word:VoidHazard statement(s):Void

2.3. Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable **vPvB:** Not applicable

# 3. Composition/Information on ingredients

Chemical characterization: Mixture

CAS No.	Index No.	EC No.:	Substance name	Weight % content (or range)	SCL/ M-factor/ ATE
7732-18-5		231-791-2	Water	>93%	
6138-23-4		202-739-6	Trehalose	<5%	
			Taq DNA polymerase	<1%	

# 4. First Aid Measures

## 4.1. Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air, consult a doctor in case of complaints.

After skin contact:

Wash off with plenty of water.

If skin irritation continues, consult a doctor.

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#### After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical treatment.

# After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

4.3. Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

#### 5. Fire-fighting Measures

## 5.1. Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture: Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

In case of fire, the following can be released:

Carbon oxides (CO, CO2)

# 5.3. Advice for fire-fighters:

Protective equipment: Wear self-contained respiratory protective device.

No special measures necessary.

## Additional information:

Contain escaping vapours with water.

Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations.

# 6. Accidental release Measures

## 6.1. Personal precautions, protective equipment and emergency procedure:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

# **6.2. Environmental precautions:** No special measures required.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up affected area.

Dispose of the material collected in accordance with regulations.

## 6.4. Reference to other sections:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7. Handling and storage

## 7.1. Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

No special measures required if used according to specifications.

**Information about fire – and explosion protection:** Normal measures for preventive fire protection.

# 7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Keep container tightly sealed.

Further information about storage conditions: Keep container tightly closed.

Recommended storage temperature: -20°C.

Avoid repeated freeze-thawing cycles.

Storage class: 12

7.3. Specific end use(s): No further relevant information available.

# 8. Exposure controls/personal protection

## 8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace: not required.

Additional information: The list valid during the making were used as basis.

Additional information about design of technical facilities: No further data; see item 7.

# 8.2. Exposure controls

# Personal protective equipment:

## General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

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Wash hands before breaks and after handling product.

Avoid contact with eyes and skin.

Change any contaminated clothing.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Required when dusts are generated.

Filter P3 (EN 143).



Required when vapours/aerosols are generated

#### Protection of hands:



Protective gloves (EN 374)

The glove material has to be impermeable and resist ant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies

from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥0.11 mm

Value for permeation: Level: >480 min.

# As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥0.11 mm

Value for the permeation: Level ≥480 min.

Eye/face protection:



Safety glasses (EN 166)

## **Body protection:**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

## 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

**General Information** 

Appearance

Form:
Colour:
Colour:
Codour:
Not determined

PH value at 20°C:
Not determined

Change in conditions

Melting point/Melting range:
Boiling point/Boiling range:
Not determined
Not applicable

Flammability (solid, gaseous): Product is not flammable

Decomposition temperature: Not determined

**Self-ignition:** Product is not self-igniting

**Danger of explosion:** Product does not present an explosion hazard

**Explosion limits:** 

**Lower:** Not determined

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Upper: Not determined

Vapour pressure: Not applicable

Density (20°C): Not determined

Bulk density at 20°C: Not applicable

Solubility in / Miscibility with

(water, 20°C): soluble

Partition coefficient (n-octanol/water): Not applicable

Viscosity:

Dynamic: Not determined Kinematic: Not determined

Solvent content:

Organic solvents: 0.0% VOC (EC) 0.00%

9.2 Other information

Appearance: Form: Liquid

Important information on protection of health and environment, and on safety.

**Explosive properties:** Product does not present an explosion hazard.

Change in condition

**Evaporation rate:** Not applicable.

Information with regard to physical hazard classes

**Explosives:** Void Flammable gases: Void Aerosols: Void Oxidising gases: Void Gases under pressure: Void Flammable liquids: Void Flammable solids: Void Self-reactive substances and mixtures: Void Pyrophoric liquids: Void Pyrophoric solids: Self-heating substances and mixtures: Void Substances and mixtures, which emit flammable gases in contact with water: Void **Oxidising liquids:** Void Oxidising solids: Void Organic peroxides: Void Corrosive to metals: Void Desensitised explosives: Void

## 10. Stability and Reactivity

10.1. Reactivity: No dangerous reactions known.

10.2. Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

**10.3. Possibility of hazardous reactions:** No dangerous reactions known.

**10.4. Conditions to avoid:**No further relevant information available.

**10.5. Incompatible materials:**No dangerous reactions known.

10.6. Hazardous decomposition products: In the event of fire: See chapter 5 of this data sheet.

# 11. Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity:

## LD50/LC50 values relevant for classification

Quantitative data on the toxicological effect of this product are not available.

Primary irritant effect:

Skin corrosion/irritation: Based on available date, the classification criteria are not met.

Serious eye damage/irritation: Based on available date, the classification criteria are not met.

Respiratory or skin sensitization: Based on available date, the classification criteria are not met.

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## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: Based on available date, the classification criteria are not met.

STOT-single exposure: Based on available date, the classification criteria are not met.

STOT-repeated exposure: Based on available date, the classification criteria are not met.

Aspiration hazard: Based on available date, the classification criteria are not met.

11.2. Information on other hazards:

Product number: M3014

Endocrine disrupting properties: Substance is not listed.

When used and handled according to specifications the product does not have any harmful effects to our experience and the information provided to us

# 12. Ecological Information

#### 12.1. Toxicity

Aquatic toxicity: Generally, not hazardous for water.

12.2. Persistence and degradability: No further relevant information available.

**12.3. Bioaccumulative potential:** No further relevant information available.

12.4. Mobility in soil: No further relevant information available.

12.5. Results of PBT and vPvB assessment

**PBT**: Not applicable **vPvB**: Not applicable

12.7. Other adverse effects: No further relevant information available.

Additional ecological information:

**General notes:** Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

#### 13. Disposal considerations

# 13.1. Waste treatment methods

## Recommendation:

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

# Uncleaned/contaminated packaging:

## Recommendation:

Disposal must be made according to official regulations.

Packaging that may not be cleansed are to be disposed of in the same manner as the product.

## 14. Transport information

14.1. UN-Number

ADR/RID, ADN, IMDG, IATA: Void

14.2. UN proper shipping name

ADR/RID, ADN, IMDG, IATA: Void

14.3. Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA:

**Class** Void

14.4. Packaging group

ADR/RID, IMDG, IATA: Void

14.5. Environmental hazards:

Marine pollutant: No

**14.6. Special precautions for user:**Not applicable

14.7. Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable

**Transport/Additional information:** Not dangerous according to the above specifications.

UN "Model Regulation": Void

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#### 15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I: Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: Substance is not listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16. Other information

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

#### Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

# Abbreviations and Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID. Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ACAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

VOC: Volatile Organic Compounds (USA, EU)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

EINECS: European Inventory of Existing Commercial Chemical Substances.

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