

MATERIAL SAFETY DATA SHEET

Horse-Power™ Taq DNA Polymerase Master Mix

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. PRODUCT DETAILS

Trade Name: Horse-Power™ Taq DNA Polymerase Master Mix

Catalog Number:

P0035

P0036

1.2. IDENTIFIED RELEVANT USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant uses: Laboratory reagent.

1.3. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.4. EMERGENCY TELEPHONE NUMBER

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

It is not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2. LABEL ELEMENTS

Regulation No 1272/2008 (CLP):

Hazard statements:

Not relevant

Precautionary statements:

P101: If medical advice is needed, have the container or label handy.

P102: Keep out of reach of children.

P501: Dispose of the contents/container in accordance with current waste treatment legislation.

2.3. OTHER HAZARDS

Product does not meet PBT/vPvB criteria.

The product does not meet the criteria for its endocrine disrupting properties.



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3. CHEMICAL CHARACTERIZATION

Chemical description: Mixture of substances

The product does not contain hazardous materials for health in the concentrations indicated. We recommend handling all chemicals with caution.

Constituents: In accordance with Annex II to Regulation (EC) No 1907/2006 (point 3), the product presents:

Chemical Name	CAS	Weight %
Magnesium Chloride	7791-18-6	<4
Tris HCl	1185-53-1	<2
Tween 20	9005-64-5	<1
Ammonium sulphate	7783-20-2	<1
dNTPs	74299-50-6	<6

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Remove affected person immediately to fresh air. Get medical attention.

Ingestion: Remove affected person to fresh air and keep warm and at rest in a position comfortable for comfortable breathing position. Rinse mouth with water. Provide plenty of water to drink. Get medical attention if any discomfort continues.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Get medical attention if any discomfort continues.

Eye contact: Flush immediately with plenty of water. Remove contact lenses and hold eyelids wide apart. Continue rinsing for at least 15 minutes. Get medical attention immediately. Continue rinsing.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: May cause an asthma-like shortness of breath.

Eye contact: Severe irritation, burning and tearing.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Non-specific recommendations. In case of doubt, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Appropriate extinguishing media

Non-flammable product, low risk of fire due to the flammability characteristics of the product under normal



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conditions of storage, handling and use. In the case of the existence of combustion maintained as a result of handling, storage or improper use, any type of extinguishing agent can be used (ABC powder, water, ...)

Inappropriate extinguishing media

There are no extinguishing agent limitations for this substance/mixture.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Due to its flammability characteristics, the product does not present a risk of fire under normal conditions of storage, handling and use.

5.3. ADVICE FOR FIRE FIGHTERS

Depending on the magnitude of the fire, full protective clothing and self-contained breathing equipment may be necessary. Have a minimum of emergency installations or elements of action (fireproof blankets, portable first aid kit,) in accordance with R.D.486/1997 and subsequent modifications.

Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on action against accidents and other emergencies. Suppress any source of ignition. In case of fire, refrigerate the containers and storage tanks for products susceptible to ignition, explosion or BLEVE as a result of high temperatures. Avoid the discharge of the products used in the extinction of the fire to the aquatic environment.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Isolate leaks as long as it does not pose a risk to the people performing this function.

6.2. ENVIRONMENTAL PRECAUTIONS

Product not classified as hazardous to the environment. Keep product away from drains and surface and groundwater.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

It is recommended: Sweep and collect the product with shovels or other means and place it in a container for reuse (preferably) or disposal.

6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

See precautions in section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

A.-Technical storage measures ITC
(R.D.656/2017): Not relevant



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Classification: Not relevant

B.-General storage conditions.

Keep in a dry, cool and well-ventilated place. For additional information see section 10.5.

7.1. SPECIFIC END USE(S)

Apart from the uses mentioned in section 12, no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Not applicable

8.2. EXPOSURE CONTROLS

A.-Personal protection measures, such as personal protective equipment

As a preventive measure, the use of basic personal protective equipment is recommended, with the corresponding CE marking in accordance with R.D.1407/1992 and subsequent modifications. For more information on personal protective equipment (storage, use, cleaning, maintenance, protection class, ...) consult the information leaflet provided by the PPE manufacturer. The particulars contained in this point refer to the pure product. The protective measures for the diluted product may vary according to its degree of dilution, use, method of application, etc. To determine the obligation to install emergency showers and / or eyewash in warehouses, the regulations regarding the storage of chemical products applicable in each case will be taken into account. For more information see sections 7.1 and 7.2. All the information included here is a recommendation being necessary its specification by the occupational risk prevention services when ignoring the additional prevention measures that the company may have or if they have been included in the relevant risk assessment.

B.-Respiratory protection:

The use of protective equipment will be necessary in the event of fog formation or in the case of exceeding the occupational exposure limits if they exist (See section 8.1).

C.-Specific protection of the hands:

Mandatory hand protection: Replace gloves for any signs of deterioration. For prolonged periods of exposure to the product for professional/industrial users, the use of CE III gloves is recommended, in accordance with EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

D.-Eye and facial protection:

Mandatory face protection - clean daily and disinfect periodically according to the manufacturer's instructions. It is recommended for use in case of risk of splashing.

E.-Body protection:

Work clothes: Replace for any signs of deterioration. For prolonged exposure periods to the product for professional/industrial users, CE III is recommended, according to EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994

Anti-slip work shoes: Replace at any sign of deterioration. For prolonged periods of exposure to the product for professional/industrial users, CE III is recommended, according to EN ISO 20345:2012 and EN 13832-1:2007

F.-Complementary emergency measures:

No additional emergency measures are required.

Environmental exposure controls: Under Community legislation on environmental protection, it is recommended to avoid dumping both the product and its packaging into the environment. For additional information see section 7.1. D



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance:

Physical condition at 20 °C: Liquid

Appearance: Not determined

Color: Not determined

Odor: Not determined

Olfactory threshold: Not relevant

Volatility:

Boiling temperature at atmospheric pressure: Not relevant *

Vapour pressure at 20°C: Not relevant *

Vapour pressure at 50 °C: Not relevant *Evaporation rate at 20 °C: Not relevant *

Product characterization:

Density at 20 °C: Not relevant *

Relative density at 20 °C: Not relevant *

Dynamic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 40 °C: Not relevant *

Concentration: Not relevant *

pH: 8-9

Vapour density at 20°C: Not relevant *

Partition coefficient n-octanol/water at 20 °C: Not relevant *

Solubility in water at 20 °C: Not relevant *

Solubility property: Not relevant *

Decomposition temperature: Not relevant *

Melting point/freezing point: Not relevant *

Flammability:

Flash point: Not applicable

Flammability (solid, gas): Not relevant *

Auto-ignition temperature: Not relevant *

Lower flammability limit: Not relevant *

Upper flammability limit: Not relevant *

Explosiveness (Solid):

Lower explosive limit: Not relevant *

Upper explosive limit: Not relevant *.

Characteristics of the particles:

Equivalent average diameter: Not relevant *

9.2. OTHER INFORMATION

Information concerning physical hazard classes:

Explosive properties: Not relevant *

Oxidizing properties: Not relevant *

Corrosive to metals: Not relevant *

Heat of combustion: Not relevant *

Aerosols-total percentage (by mass) of flammable components: Not relevant *



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*Not relevant due to the nature of the product, not providing characteristic information of its danger.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

There are no known reactivity hazards associated with this product.

10.2. CHEMICAL STABILITY

Stable at normal room temperature and when used as recommended.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Not determined.

10.4. CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

10.5. INCOMPATIBLE MATERIALS

Not determined.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

See section 10.3, 10.4 and 10.5 for specific decomposition products. Depending on the conditions of decomposition, complex mixtures of chemicals can be released as a result: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Not dangerous

Dangerous health effects:

In the event of repetitive, prolonged exposure or at concentrations higher than those established by occupational exposure limits, adverse health effects may occur depending on the route of exposure:

A-Ingestion (acute effect):

- Acute toxicity: In view of the available data, the classification criteria are not met. For more information see section 3.
- Corrosivity/Irritability: In view of the available data, the classification criteria are not met. For more information see section 3.

B-Inhalation (acute effect):

- Acute toxicity: In view of the available data, the classification criteria are not met. For more information see section 3.
- Corrosivity/Irritability: In view of the available data, the classification criteria are not met. For more information see section 3.

C-Contact with skin and eyes (acute effect):

- Skin contact: In view of the available data, the classification criteria are not met. For more information see section



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- 3.
- Eye contact: In view of the available data, the classification criteria are not met. For more information see section 3.
- 3.
- D-CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):
- Carcinogenicity: In view of the available data, the classification criteria are not met. For more information see section 3.
- IARC: Not relevant
- Mutagenicity: In view of the available data, the classification criteria are not met. For more information see section 3.
- 3.
- Reproductive toxicity: In view of the available data, the classification criteria are not met. For more information see section 3.
- E-Sensitization effects:
- Respiratory: In view of the available data, the classification criteria are not met. For more information see section 3.
 - Cutaneous: In view of the available data, the classification criteria are not met. For more information see section 3.
- F-Specific Organ Toxicity (STOT)-Single Exposure:
- In view of the available data, the classification criteria are not met. For more information see section 3.
- G-Specific Organ Toxicity (STOT)-Repeated Exposure:
- Specific organ toxicity (STOT)-repeated exposure: In view of the available data, the classification criteria are not met. For more information see section 3.
 - Skin: In view of the available data, the classification criteria are not met. For more information see section 3.
- H-Aspiration hazard:
- In view of the available data, the classification criteria are not met. For more information see section 3.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.

12.1. TOXICITY

It is not considered toxic to fish.

12.2. PERSISTENCE AND DEGRADABILITY

There are no data on the degradability of this product.

12.3. BIOACCUMULATION POTENTIAL

No data on bioaccumulation.

12.4. MOBILITY IN THE SOIL

The product is soluble in water.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This product does not contain substances classified as PBT or vPvB.

12.6. OTHER ADVERSE EFFECTS

Not determined.



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13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

General information: Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.2. UN PROPER SHIPPING NAME

ADR/RID: Non-dangerous

goods IMDG: Non-Dangerous

Goods IATA: Non-dangerous

goods.

14.3. TRANSPORT HAZARD CLASS(ES)

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.4. PACKAGING GROUP

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.5. ENVIRONMENTAL HAZARDS

ADR/RID: no IMDG Marine pollutant: Not relevant

IATA: Not relevant

14.6. SPECIAL PRECAUTIONS FOR USER

No information required.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

No information required.



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15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Candidate substances for authorization in Regulation (EC) 1907/2006 (REACH): Not relevant Substances included in REACH Annex XIV (authorization list) and expiry date: Not relevant Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Not relevant.

Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Not relevant REGULATION (EU) No 649/2012 on the export and import of hazardous chemicals:

Not relevant

Seveso III:

Not relevant

Restrictions on the placing on the market and use of certain dangerous substances and mixtures (Annex XVII to the REACH Regulation, etc.):

Not relevant

Special provisions on the protection of persons or the environment:

It is recommended that the information collected in this safety data sheet be used as input data in a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 and all subsequent amendments thereto.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but is not intended to be exhaustive and should be used for guidance only.

The information contained herein is based on the present state of our knowledge and is applicable to appropriate safety precautions for the product.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand

BOD5: Biological Oxygen Demand at 5 days

BCF: Bioconcentration Factor

LD50: Lethal Dose 50

LC50: Lethal concentration 50

EC50: Effective Concentration 50

Log POW: Logarithm Partition Coefficient Octanol/Agua Koc:

Organic Carbon Partition Coefficient

SDS: Safety Data Sheet

UFI: Unique formula identifier

IARC: International Agency for Research on Cancer

