Canvax Reagents, S.L.
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MATERIAL SAFETY DATA SHEET

HotBegan™ Hot Start Red DNA Polymerase Master Mix

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

1.1. PRODUCT DETAILS

Trade Name: HotBegan™ Hot Start Red DNA Polymerase Master Mix

Catalog Number: P0320

1.2. COMPANY DETAILS

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

1.3. EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: +34 931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE): Not Hazardous.

Physical Hazards: Not Hazardous.

Health Hazards: Not Hazardous.

Environmental Hazards: Not Hazardous.

2.2. LABEL ELEMENTS

Hazard pictograms None.

Hazard Statements Not Applicable.

2.3. PREVENTIVE ADVICE

Not Applicable.

2.4. OTHER HAZARDS

The product does not contain hazardous materials to health at the indicated concentrations. We recommend handling all chemicals with caution This substance is not classified as PBT or vPvB according to current EU criteria.

3. CHEMICAL CHARACTERIZATION

Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Product	Substance	CAS-no.	Weight %	Classification
P0320	Taq DNA Polymerase	9012-90-2	< 1%	Not classified
	Glycerol	56-81-5	< 25%	Not classified

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4. FIRST AID MEASURES

4.1. DESCRIPTION OF DIRTS AID MEASURES

Inhalation: Move to fresh air. In case of persistent symptoms receive medical treatment. If not breathing, give artificial respiration

Ingestion: Never give anything by mouth to an unconscious person. In case of persistent symptoms receive medical treatment. Do not induce vomiting without medical advice

Skin contact: Notes to physician Treat symptomatically. Rinse with plenty of water. In case of persistent symptoms receive medical treatment.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent symptoms receive medical treatment.

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

Not Applicable.

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

None. In case of doubt, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use of an extinguishing agent can be used.

Suitable extinguishing media: Water Foam Carbon dioxide (CO_2) Dry Powder.

Unsuitable extinguishing agents: Water with full jet (for safety reasons)

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, CO_2)

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 PROCEDURES

Advice for non-emergency personnel: Do not breathe vapors, aerosols, mist or gas. Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Evacuate the danger area, observe emergency procedures, consult an expert.

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6.2. ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. 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

For safe handling: see section 7 for more information.
For personal protection equipment: see section 8 for more information.
For disposal: see section 13 for more information.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Use personal protective equipment as required. No special handling advices are necessary. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Information about fire and explosion protection: Normal measures for preventive fire protection

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Tightly closed and sealed. Store at -20°C (NON Frost-Free Freezer). Avoid repeated freeze-thawing cycles. Storage class: 12.

7.3. SPECIFIC END USE(S)

For research use only. Not for diagnostic use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

8.2. EXPOSURE CONTROLS

Special 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.

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

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Hand protection: It is recommended that gloves be made of the following materials: Nitrile rubber. Wash hands before breaks and after handling product.

Other skin and body protection: Wear suitable protective clothing. Wear rubber apron. Wear rubber footwear.

Respiratory protection: Required when vapours/aerosols are generated. 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.

Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid.

Colour: Dark red.

Odor: Not available.

Relative density: Not available.

Solubility(ies): Soluble (in water at 20°C)

9.2. OTHER INFORMATION

Not determinated.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No hazardous reactions are expected because the product is stable under recommended storage conditions.

10.2. CHEMICAL STABILITY

Stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous reaction has not been reported.

10.4. CONDITIONS TO AVOID

No information available.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

In the event of fire: see section 5

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11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

No acute toxicity information is available for this product.

Acute toxicity:

There is no evidence available indicating acute toxicity.

Primary irritant effect:

- On the skin: Data are conclusive but insufficient for classification.
- On the eye: Data are conclusive but insufficient for classification.

Additional toxicological information:

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

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.

Note: Hazard class 1, slightly hazardous to water and ground.

12.1. TOXICITY

Not data available.

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 mixture does not contain any substances that are assessed to be a PBT or a vPvB, at levels of 0.1% or higher.

12.6. OTHER ADVERSE EFFECTS

Not determined.

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.

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.

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

No information required.

14.2. UN PROPER SHIPPING NAME

No information required.

14.3. TRANSPORT HAZARD CLASS(ES)

No information required.

14.4. PACKAGING GROUP

No information required

14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

14.6. SPECIAL PRECAUTIONS FOR USER

Not Applicable.

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

No information required.

15. REGULATORY INFORMATION

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

National Provisions: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Guidance: CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

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16. OTHER INFORMATION

Revision comments: Lines within the margin indicate significant changes from the previous revision.

Revision Date: 27/06/2024

Revision: 01

Date of replacement: No previous revision.