

MATERIAL SAFETY DATA SHEET

Version: 1.0

Revision Date: 10/26/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hot Start Taq DNA Polymerase

Product Number : HMD0201

Brand : Hzymes

Product Use : For laboratory research purposes.

Supplier : Hzymes Biotechnology Co.,Ltd.

Address : 701, No. 6, Wuhan Optical Valley Precision medical industry base, No. 9, gaokeyuan Third Road, East lake High-Tech Development Zone, WUHAN

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2. HAZARDS IDENTIFICATION

Emergency Overview

Colourless

If inhaled, remove the patient to fresh air. If breathing stops, perform artificial respiration. Rinse with soap and plenty of water. Wash eyes with water carefully. Never feed anything to an unconscious person. Rinse your mouth with water

GHS hazard category

Not a hazardous substance or mixture according to GHS.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture according to GHS.

Physical and chemical hazards

Currently have information, no physical or chemical hazards.

Health hazard

Currently have information, no physical or Health hazard.

Environmental hazard

Currently have information, no physical or Environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / mixture: mixture

| Component | CAS No. | Ec-No. | Concentration |
|---|-----------|-----------|---------------|
| Protein | - | - | - |
| Glycerol | 56-81-5 | 200-289-5 | - |
| Tris(hydroxymethyl)aminomethane hydrochloride | 1185-53-1 | 214-684-5 | - |
| KCl | 7447-40-7 | 231-211-8 | - |
| EDTA | 60-00-4 | 200-449-4 | - |
| DTT | 3483-12-3 | 222-468-7 | - |

| | | | |
|---------------|-----------|---|---|
| Tween 20 | 9005-64-5 | / | |
| IGEPAL CA-630 | 9002-93-1 | / | - |

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. Avoid breathing vapours, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C (long term).

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL

| | |
|---|-------------------|
| a) Appearance and traits | Form: Liquid |
| | Colour: Colorless |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | 7.0-8.0 at 25 °C |
| e) Melting point/freezing point | no data available |
| d) Initial boiling point and boiling range | 100 °C |
| g) Flash point | no data available |
| h) Evaporation rate | no data available |
| i) Flammability (solid, gas) | no data available |
| j) High/low flammability or explosive limit | no data available |
| k) Vapor Pressure | no data available |
| l) Vapor density | no data available |
| m) Density/relative density | no data available |
| n) Water solubility | no data available |
| o) Partition coefficient of n-octanol/water | no data available |
| p) Auto-ignition temperature | no data available |
| q) Decomposition temperature | no data available |
| r) Viscosity Kinematic viscosity: | no data available |
| Dynamic viscosity: | no data available |
| s) Explosive characteristics | no data available |
| t) Oxidizing | no data available |

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Mixture

Acute toxicity

Oral LD50

no data available

Inhalation LC50

no data available

Dermal LD50

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product

14. Transport information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

Further information Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

No special information collection was conducted

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other information

Further information

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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. Hzymes Biotechnology Co.,Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.