



## PanGreen™ Universal MasterMix

### Identification of the preparation / Substance and of the company

Product Name : PanGreen™ Universal MasterMix

Catalog Number : QSD01-0100

Use of the preparation : For laboratory use.

Company identification : BIO-HELIX Co., LTD.

Site : <http://www.bio-helix.com>

E-mail : [info@bio-helix.com](mailto:info@bio-helix.com)

### Composition / Information on ingredients

Ingredient:

|  |               |                 |
|--|---------------|-----------------|
| Water  | >50% (v/v)    | CCAS#7732-18-5  |
| Tris-HCl   | 30-50 mM      | CAS#1185-53-1   |
| Magnesium chloride hexahydrate                   | 1-5 mM        | CAS#7791-18-6   |
| Bovine Serum Albumin                             | 0.3-0.5 mg/ml | CAS#9048-46-8   |
| 2'-Deoxyadenosine-5'-triphosphate trisodium salt | <0.1 mM       | CAS#1927-31-7   |
| 2'-Deoxythymidine-5'-Triphosphate sodium salt    | <0.1 mM       | CAS#18423-43-3  |
| 2'-Deoxyguanosine-5'-triphosphate trisodium salt | <0.1 mM       | CAS#93919-41-6  |
| 2'-Deoxycytidine 5'-triphosphate disodium salt   | <0.1 mM       | CAS#102783-51-7 |
| Triton X-100                                     | <0.3%         | CAS#9002-93-1   |
| SYBR green I dye                                 | <0.1%         | CAS#163795-75   |

Other components :

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Additional information : For the wording of the listed risk phrases refer to section 16.

### Hazards identification

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Form : Liquid

Principle Routes of Exposure/Potential Health effects



|                       |                          |
|-----------------------|--------------------------|
| Eyes                  | No information available |
| Skin                  | No information available |
| Inhalation            | No information available |
| Ingestion             | No information available |
| Specific effects      |                          |
| Carcinogenic effects  | No information available |
| Mutagenic effects     | No information available |
| Reproductive toxicity | No information available |
| Sensitization         | No information available |
| Target Organ Effects  | No information available |
| HMIS                  |                          |
| Health                | 0                        |
| Reactivity            | 0                        |
| Flammability          | 0                        |

## First Aid Measures

Skin contact : Wash off immediately with plenty of water.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion : Never give anything by mouth to an unconscious person.

Inhalation : Move to fresh air.

Notes to physician : Treat symptomatically.

## Fire-fighting measures

Suitable extinguishing media : Dry chemical

Special protective equipment : Wear self-contained breathing apparatus and protective suit for firefighters

## Accidental release measures

Personal precautions : Use personal protective equipment.

Methods for cleaning up : Soak up with inert absorbent material.

## Handling and storage

Handling : No special handling advice required.

Storage : Store at - 20°C. Keep in properly labelled contain.





## Exposure controls / personal protection

Occupational exposure controls

Exposure limits

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection equipment : In case of insufficient ventilation wear suitable respiratory.

Hand protection : Protective gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : Lightweight protective clothing.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls : Prevent product from entering drains.

## Physical and chemical properties

General Information

Form Liquid

Important Health Safety and Environmental Information

Boiling point/range °C No data available °F No data available

Melting point/range °C No data available °F No data available

Flash point °C No data available °F No data available

Autoignition temperature °C No data available °F No data available

Oxidizing properties No information available

Water solubility No data available

## Stability and reactivity

Stability : Stable.

Materials to avoid : No information available.

Hazardous decomposition products : No information available.

Polymerization : Hazardous polymerization does not occur.

## Toxicological information

Acute toxicity

Principle Routes of Exposure/Potential Health effects

Eyes No information available

Skin No information available

Inhalation No information available

Ingestion No information available

Specific effects

Carcinogenic effects No information available



## Ecological information

Mutagenic effects            No information available  
Reproductive toxicity        No information available  
Sensitization                No information available  
Target Organ Effects        No information available  
Ecotoxicity effects : No information available  
Mobility : No information available  
Biodegradation : Inherently biodegradable.

## Disposal considerations

Bioaccumulation : Does not bioaccumulate.  
Dispose of in accordance with local regulations.  
IATA

## Transport information

Proper shipping name            Not classified as dangerous in the meaning of  
transport regulations  
Hazard Class                      No information available  
Subsidiary Class                 No information available  
Packing group                    No information available  
UN-No                                No information available

## Other information

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/ or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Bio-Helix Co., Ltd. Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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