

**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

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
ROX I Reference Dye (High ROX Reference Dye)	<0.01%	-
ROX II Reference Dye (Low ROX Reference Dye)	<0.01%	-

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.

General Information

Physical and chemical properties

Form Liquid

Important Health Safety and Environmental Information

Boiling point/range	°C No data available	°F No data available
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Melting point/range	°C No data available	°F No data available
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Flash point	°C No data available	°F No data available
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Autoignition temperature	°C No data available	°F No data available
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Oxidizing properties	No information available
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Water solubility	No data available
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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
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Skin	No information available
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Inhalation	No information available
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Ingestion	No information available
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Specific effects

Carcinogenic effects	No information available
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Mutagenic effects	No information available
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Reproductive toxicity	No information available
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Sensitization	No information available
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Target Organ Effects	No information available
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Ecological information

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.

Transport information

IATA	
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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