# EvaGreen qPCR System-ROX II

# 1. Identification of the substance/mixture and of the company/undertaking

**Preparation Name:** 

EvaGreen qPCR System-ROX II

Product code: QP006-0100

Use of the preparation: For laboratory use.

Suitable for use as molecular weight standards for SDS-PAGE electrophoresis.

Company identification: BIO-HELIX Co.,LTD.

Site: http://www.bio-helix.com E-mail: info@bio-helix.com

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### 2. Hazards identification

#### **GHS – Classification**

Signal Word	Health Hazard	Physical Hazards
not hazardous	not hazardous	not hazardous

#### **Precautionary statements**

P262 - Do not get in eyes, on skin, or on clothing P264 - Wash hands thoroughly after handling

# **Principle Routes of Exposure/**

#### **Potential Health effects**

**Eyes** May cause eye irritation with susceptible persons.

**Skin** May cause skin irritation in susceptible persons. s. Components of

the product may be absorbed into the body through the skin.

InhalationMay be harmful by inhalation.IngestionMay be harmful if swallowed.

Specific effects

Carcinogenic effects none

Mutagenic effects Substances which cause concern for man owing to possible mutagenic

effects but for which the available information is not adequate for

making a satisfactory assessment.

**Reproductive toxicity** none **Sensitization** none

**Target Organ effects** No known effects under normal use conditions.

**HMIS** 

Health	Flammability	Reactivity
0	0	0

### 3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
dimethylsulfoxide	67-68-5	200-664-3	0.1-1
glycerol	56-81-5	200-289-5	3-7
EvaGreen			<0.1
ROX II Reference Dye			< 0.01



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

#### 4. First aid measures

**Skin contact** Wash off immediately with plenty of water. If symptoms persist, call a physician Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Consult a physician.

**Ingestion** Never give anything by mouth to an unconscious person. If symptoms persist,

call a physician. Do not induce vomiting without medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If not breathing,

give artificial respiration.

**Notes to physician** Treat symptomatically.

### 5. Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective

Wear self-contained breathing apparatus and protective suit.

equipmentfor firefighters

### 6. Accidental release measures

Personal precautions

Use personal protective equipment.

Methods for cleaning up

Soak up with inert absorbent material.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

### 7. Handling and storage

**Handling** Always wear reccommended Personal Protective Equipment.

No special handling advice required.

**Storage** Keep in a dry, cool and well-ventilated place

# 8. Exposure controls/personal protection

**Exposure limits** 

<u>Chemical Name</u>	OSHA PEL	OSHA PEL(Ceiling)	ACGIH OEL(TWA)	ACGIH OEL(STEL)
dimethylsulfoxide	none	none	none	none
glycerol	15 mg/m3 5 mg/m3	none	10 mg/m3	none
ROX II Reference Dye		none	none	none
EvaGreen	none	none	none	none

**Engineering measures** Ensure adequate ventilation, especially in confined areas

Personal protective equipment

**Personal Protective** Equipment requirements are dependent on the user institution's risk

assessment and are specific to the risk assessment for each laboratory

where this material may be used.

**Respiratory** protection In case of insufficient ventilation wear suitable respiratory

equipment

**Hand protection** Impervious 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.

### 9. Physical and chemical properties

**General Information** 

Form liquid

Appearance No information available Odor No information available

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 soluble

10. Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use

Hazardous decomposition No information available

products

**polymerization** Hazardous polymerisation does not occur.

### 11. Toxicological information

**Acute toxicity** 

<b>Chemical Name</b>	LD50	LD50	LC50	
	(oral,rat/mouse)	(dermal,rat/rabbit)	(inhalation,rat/mouse)	
dimethylsulfoxide	14500 mg/kg (Rat)	no data available	no data available	
glycerol	12600 mg/kg Oral	no data available	no data available	
ROX II Reference Dy	e no data available	no data available	no data available	
Mastermix				

Principle Routes of Exposure/

**Potential Health effects** 

**Eyes**May cause eye irritation with susceptible persons **Skin**May cause skin irritation in susceptible persons

Components of the product may be absorbed into the

body through the skin.

InhalationMay be harmful by inhalationIngestionMay be harmful if swallowed.

Carcinogenic effects none

Mutagenic effects Substances which cause concern for man owing to

possible mutagenic effects but for which the available information is not adequate for making a satisfactory

assessment.



**Reproductive toxicity** none **Sensitization** none

**Target Organ Effects** No known effects under normal use conditions.

12. Ecological information

**Ecotoxicity effects** Daphnia magna (Water flea)

**Mobility** see log Pow

**Biodegradation Bioaccumulation**Inherently biodegradable
Does not bioaccumulate.

**Chemical Name Water Flea Freshwater** Freshwater **Microtox** log Pow Data Fish **Data** Algae **Species Data Data** dimethylsulfoxide Skeletonema Daphnia logPow-2.03 67-68-5 costatum species EC50=7000 EC5012350 -25500 mg/L mg/L (24h) (96 h)

glycerol Daphnia logPow-1.76

56-81-5 magna EC50>500 mg/L (24h)

### 13. Ecotoxicity effects

Dispose of in accordance with local regulations

#### 14. Transport information

IATA

Proper shipping name Not classified as dangerous in the meaning of transport

Hazard class none
Subsidiary Class none
Packing group none
UN-No none

15. Regulatory information

Component TSCA dimethylsulfoxide 67-68-5 ( 0.1-1 ) Listed glycerol 56-81-5 ( 3-7 ) Listed EvaGreen ( <0.1 ) --

U.S. Federal Regulations

SARA 313 This product is not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

Chemical Name	Massachusetts s - RTK	New Jersey -RTK	Pennsylvania -RTK	Illinois - RTK	Rhode Island -RTK
dimethylsulfoxide					
glycerol	Listed		Listed		Listed
EvaGreen					
<b>ROX II Reference Dye</b>	·				



#### **California Proposition 65**

This product does not contain chemicals listed under Proposition 65

#### **WHMIS Hazard Class**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required y the CPR

#### 16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal herapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or osmetic 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 GenedireX 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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