

# Material Safety Data Sheet

## EvaGreen qPCR System-ROX Free

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

Preparation Name:

EvaGreen qPCR System-ROX Free

Product code:

QP007-0100

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](mailto: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.

**Inhalation**

May be harmful by inhalation.

**Ingestion**

May 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 %
glycerol	56-81-5	200-289-5	3-7
EvaGreen	--	--	<0.1

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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

<b>Skin contact</b>	Wash off immediately with plenty of water. If symptoms persist, call a physician
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
<b>Notes to physician</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. See Section 12 for additional information.

## 7. Handling and storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment. No special handling advice required.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place

## 8. Exposure controls/personal protection

### Exposure limits

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>OSHA PEL(Ceiling)</b>	<b>ACGIH OEL(TWA)</b>	<b>ACGIH OEL(STEL)</b>
glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	none	10 mg/m <sup>3</sup>	none
EvaGreen	none	none	none	none

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas Personal protective equipment
<b>Personal Protective</b>	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.
<b>Respiratory</b>	protection In case of insufficient ventilation wear suitable respiratory equipment
<b>Hand protection</b>	Impervious gloves.
<b>Eye protection</b>	Safety glasses with side-shields

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<b>Skin and body protection</b>	Lightweight protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure Controls</b>	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

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	No dangerous reaction known under conditions of normal use
<b>Hazardous decomposition products</b>	No information available
<b>polymerization</b>	Hazardous polymerisation does not occur.

## 11. Toxicological information

### Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
glycerol	12600 mg/kg Oral	no data available	no data available

### Principle Routes of Exposure/

### Potential Health effects

<b>Eyes</b>	May cause eye irritation with susceptible persons
<b>Skin</b>	May cause skin irritation in susceptible persons Components of the product may be absorbed into the body through the skin.
<b>Inhalation</b>	May be harmful by inhalation
<b>Ingestion</b>	May be harmful if swallowed.
<b>Carcinogenic effects</b>	none
<b>Mutagenic effects</b>	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.

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

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
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glycerol		Daphnia 56-81-5 magna EC50>500 mg/L (24h)			logPow-1.76
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## 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  
 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 - RTK	New Jersey -RTK	Pennsylvania -RTK	Illinois - RTK	Rhode Island -RTK
glycerol	Listed		Listed		Listed
EvaGreen	--	--	--	--	--

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## 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 by 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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