Material Safety Data Sheet

EvaGreen qPCR System-ROXI

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

Preparation Name: EvaGreen qPCR System-ROX I Product code: QP005-0100 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 identific GHS – Classification	ation	
Signal Word	Health Haza	ard Physical Hazards
not hazardous	not hazard	
Precautionary stateme	ents	
P262 - Do not get in ey	es, on skin, or on	clothing
P264 - Wash hands tho	0,	dling
Principle Routes of Exp	oosure/	
Potential Health effect	S	
Eyes	May cause	eye irritation with susceptible persons.
Skin	•	skin irritation in susceptible persons. s. Components of the
	product ma	y be absorbed into the body through the skin.
Inhalation	May be har	mful by inhalation
Ingestion	May be har	mful if swallowed.
Specific effects		
Carcinogenic effects	none	
Mutagenic effects	Substances	which cause concern for man owing to possible mutagenic
	effects but f	for which the available information is not adequate for
	making a sa	iti factory assessment.
Reproductive toxicity	none	
Sensitization	none	
Target Organ effects	No known e	effects under normal use condi ons.
HMIS		
Health F	lammability	<u>Reac_vity</u>
0	0	0

3. Composition/information on ingredients

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



The product contains no substances which at their given concentration, a e 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
Eye contact	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 vomi ng without medical advice.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial espiration
Notes to physician	Treat symptomati ally.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective	Wear self-contained breathing apparatus and protectie suit.
equipmentfor firefighters	

6. Accidental release measures

Personal precautions	Use personal protecti e 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 or addi onal information	

7. Handling and storage

Handling	Always wear reccommended Personal Protecti e Equipment.
	No special handling advice required.
Storage	Keep in a dry, cool and well-ventil ted place

8. Exposure controls/personal protection

Exposure limits				
Chemical Name OSHA PEL		OSHA PEL(Ceiling)	ACGIH OEL(TWA)	ACGIH OEL(STEL)
dimethylsulfoxide	nethylsulfoxide none		none	none
glycerol			10 mg/m3	none
ROX I Reference Dye	none	none	none	none
EvaGreen	none	none	none	none
Engineering measure Personal Protective	Perso	nal protec ve equipr	on, specially in confir nent are dependent on the	
assessment and are specific to the risk assessment for eacwhere this material may be used.Respiratoryprotection In ase of insufficient ventil tion wear suitableequipment				
Hand protection	Imper	rvious gloves.		
Eye protection	Safety	y glasses with side-sh	ields	



Material Safety Data Sheet

safety practic	10
Prevent product from entering drains.	
perties	
liquid	
No information available	
No information available	
°C no data available	°F no data available
°C no data available	°F no data available
°C no data available	°F no data available
°C no data available	°F no data available
	Prevent product from entering drains. Derties liquid No information available No information available °C no data available °C no data available °C no data available °C no data available

Lightweight protecti e clothing.

Handle in accordance with good industrial hygiene and

10. Stability and reactivity	
Ctobility	

Skin and body protection

Hygiene measures

Oxidizing properties

Water solubility

Stability	Stable under normal condi ons.
Materials to avoid	No dangerous reaction known under condi ons of normal use
Hazardous decomposition	No information available
products polymerization	Hazardous polymerisation does not occur.

No information available

soluble

11. Toxicological information

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

Principle Routes of Exposure/ Potential Health effects Eyes

Eyes	May cause eye irritation with susceptible pe sons
Skin	May cause skin irritation in susceptible pe sons
	Components of the product may be absorbed into the
	body through the skin.
Inhalation	May be harmful by inhalatio
Ingestion	May 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 sati factory
	assessment.



Reproductive toxicity Sensitization Target Organ Effects		none none No known eff	ons.		
12. Ecological info Ecotoxicity effects Mobility Biodegradation Bioaccumulation Chemical Name	Freshwater Algae Data	Daphnia mag see log Pow Inherently bio Does not bio Water Flea Data	accumulate.) Microtox Data	log Pow
dimethylsulfoxide 67-68-5	Skeletonema costatum EC5012350 -25500 mg/L (96 h)	species EC50=7000			logPow-2.03
glycerol		Daphnia 56-81-5 magi EC50>500 mg/L (24h)	าล		logPow-1.76

13. Ecotoxicity effects Dispose of in accordance with local regulatio s

14. Transport information

IAIA	
Proper shipping name Not classified as dangerous in the meaning of transp	ort
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	7)	Listed						
EvaGreen (<0.1)								
U.S. Federal Regulati	on							
SARA 313	This product is not regulated by SARA							
Clean Air Act, Section 112 Ha ardous Air Pollutants (HAPs) (see 40 CFR 61)								
This product does not contains HAPs.								
U.S. State Regulation								
Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois - RTK	Rhode Island			
	s - RTK	-RTK	-RTK		-RTK _			
<u>dimethylsulfoxide</u>								
glycerol	Listed		Listed		Listed			
EvaGreen								
ROX I Reference Dye								



California Proposition 65

This product does not contain chemicals listed under Proposi on 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 equired 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 clini al diagnostic use. It i not intended for food, drug, household, agricultural, or osmetic use. An individual echnically qualified to handle potentia ly hazardous chemicals must supervise the use of this material.

The above information as acquired by diligent search and/or investination 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 annot control the actual methods, volumes, or condition of use, the Company shall not be held liable for any damages or losses resuling from the handling or from contact with the product as described herein.

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