ROX I Reference Dye

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

Preparation Name:

ROX I Reference Dye

Product code: QP001-0100R

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

Principle Routes of Exposure/

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.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects none
Mutagenic effects none
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
ROX I Reference Dye			<0.01

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, Eye contact

for at least 15 minutes. Consult a physician.

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

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

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

give artificial respiration.

Treat symptomatically. Notes to physician

5. Fire-fighting measures

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

> Components of the product may be absorbed into the body through the skin. May cause skin irritation in susceptible

persons.

Special protective

equipmentfor firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions Use personal protective equipment. Methods for cleaning up Soak up with inert absorbent material.

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

See Section 12 for additional information.

7. Handling and storage

Handling Always wear reccommended Personal Protective Equipment.

No special handling advice required.

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

8. Exposure controls/personal protection

Exposure limits

Chemical Name	OSHA PEL	OSHA PEL(Ceiling)	ACGIH OEL(TWA)	ACGIH OEL(STEL)
dimethylsulfoxide	none	none	none	none
ROX I Reference Dye	none	none	none	none

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

Personal protective equipment

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

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

Impervious gloves. Hand protection

Eye protection Safety glasses with side-shields Lightweight protective clothing. Skin and body protection

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

Environmental exposure

Prevent product from entering drains.

Controls



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 information available Hazardous decomposition No information available

products

polymerization Hazardous polymerisation does not occur.

11. Toxicological information

Acute toxicity

Chemical Name	LD50	LD50	LC50
	(oral,rat/mouse)	(dermal,rat/rabbit)	(inhalation,rat/mouse)
dimethylsulfoxide	14500 mg/kg Oral LD50	no data available	no data available
ROX I Reference Dy	e no data available	no data available	no data available

Principle Routes of Exposure/

Potential Health effects

Eyes May cause eye irritation with susceptible persons
Skin Components of the product may be absorbed into the

body through the skin May cause skin irritation in

susceptible persons.

Inhalation May be harmful by inhalation 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 satisfactory

assessment.

Reproductive toxicity none Sensitization none

Target Organ Effects None under normal use conditions

12. Ecological information

Ecotoxicity effects Daphnia magna (Water flea)
Mobility No information available



Biodegradation Bioaccumulation		Inherently biodegradable Does not bioaccumulate.				
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow	
dimethylsulfoxide 67-68-5	Skeletonema costatum EC5012350 -25500 mg/L (96 h)	species EC50=7000			logPow-2.03	

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
ROX I Reference Dye NONE (<0.01) --

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	New Jersey	Pennsylvania	Illinois - RTK	Rhode Island
	s - RTK	-RTK	-RTK		-RTK
dimethylsulfoxide					
ROX I Reference Dye	·				

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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