

MATERIAL SAFETY DATA SHEET

Date Revised: June 14, 2012

1. PRODUCT AND COMPANY INFORMATION

Product Name: GelRed Nucleic Acid Stain, 10,000X in water
Catalog Number: 41003
Unit Size: 0.5 mL
Manufacturer/Supplier: Biotium, Inc.
3159 Corporate Place, Hayward, CA 94545, USA
Phone: 1-510-265-1027, Fax: 1-510-265-1352
Web: http://www.biotium.com

2. COMPOSITION AND INFORMATION ON INGREDIENTS**Hazardous / Non-hazardous Components**

Chemical Name	CAS-No.	EINECS-No.	Weight%
GelRed	-	-	<1%
Water	7732-18-5	231-791-2	>98%

3. HAZARDS IDENTIFICATION**European labeling in Accordance with EC Directives 1272/2008/EC****Classification**

Chemical Name	Classification	R-Phrase(s)
GelRed	Not listed	Not listed
Water	Not listed	Not listed

GHS label element, including precaution statement

Pictogram None
Signal word None

Hazard statements None
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Indication of danger:

Inhalation May be harmful if inhaled
Skin May be harmful if absorbed through skin
Eye May cause eye irritation
Ingestion May be harmful if swallowed

R-phrase(s)

None

4. FIRST AID MEASURES

Skin contact: Wash off with plenty of water
Eye contact: Rinse thoroughly with plenty of water
Ingestion: Never give anything by mouth to an unconscious person
Inhalation: Move to fresh air
Medical treatment: Treat symptomatically

5. FIRE FIGHTING MEASURES

Use carbon dioxide, dry chemical extinguishers, foam extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Soak up spilled substance with inert absorbent material.

7. HANDLING AND STORAGE

Store at room temperature. Avoid long-term light exposure

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	EU OEL(TWA)	EUOEL(STEL)	EU Skin Notation	Austria OEL (MAK)	Belgium (TWA)	Denmark(TWA)	Finland OEL (TWA)
GelRed	-	-	-	-	-	-	-
Water	-	-	-	-	-	-	-

Chemical name	France OEL (VME)	Germany OEL (TWA)	Ireland(TWA)	Italy OEL (TWA)	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
GelRed	-	-	-	-	-	-	-
Water	-	-	-	-	-	-	-

ACGIH/OSHA Permissible Exposure Limit Data: Not determined

Engineering measures: No special precautions required.

Personal protective equipment

Respiratory protection: No special protective equipment required.
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: No special environmental precautions required

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Dark Red liquid
Odor: Not determined
Solubility in Water: Miscible
Specific Gravity: Not determined
pH: Neutral
Boiling Point: Not determined
Melting Point: Not determined
Flash Point: Not determined
Vapor Pressure: Not determined

10. STABILITY AND REACTIVITY

Thermal Decomposition: No decomposition if used according to specifications
Dangerous Products of Decomposition: No dangerous decomposition products identified
Polymerization: Hazardous polymerization does not occur
Stability: Stable

11. TOXICOLOGICAL INFORMATION

RTECS Number: None known
Acute Toxicity: GelRed- Toxicity data: LC₅₀>750mg/L. Acute toxicity test, fathead minnows, 96 hour exposure, 100% survival

Potential Health Hazards:

Eyes No information available
Skin No information available
Inhalation No information available
Ingestion No information available

Carcinogenicity: Not listed by NTP, IARC or OSHA

Mutagenicity:

Bacterial Reverse Mutation Screening Assay (Ames assay)

Negative with or without S9 metabolic activation on histidine dependent Salmonella typhimurium strain (TA98)

Reproductive toxicity: No information available

Sensitization: No Information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Contains no substances known to be hazardous to the environment or not degradable in waste
Water treatment plants

Aquatic toxicity:

Test organism: Fathead minnow
Test method: EPA600/4-85/013
Result: Not hazardous or toxic to aquatic life according to CCR Title 22 Hazardous Waste Characterization guidelines

Mobility: Completely soluble
Biodegradation: Inherently biodegrade
Bioaccumulation: Does not bioaccumulate

13. DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal.

14. TRANSPORT INFORMATION

IATA, DOT(US), IMDG

Hazards Class: Not classified as hazardous during transportation
Subsidiary Class: No information available
Identification Number: No information available
Packing Group: Not classified
Proper Shipping Name (Technical Name): Not classified as dangerous in the meaning of transport regulations

15. REGULATIONS

US Toxic Substances Control Act (TSCA): Not listed

US Other: Not applicable

EEC EINECS Number: Not identified

EEC Risk Statements: None identified

European labeling in Accordance with EC Directives 1272/2008/EC

Indication of danger

Not hazardous

R-phrases(s)

None

S-phrases)

None

International Inventories Not listed

16. OTHER INFORMATION

Disclaimer: The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.