

PRODUCT AND COMPANY IDENTIFICATION

Product Name: SYBR Safe™ DNA gel stain * 10,000X concentrate in DMSO *
Catalog Number: S33102
Revision Number: 1.4
Revision Date: October 28, 2004
Unit Size: 400 µL
Manufacturer/Supplier: Molecular Probes, Inc.
29851 Willow Creek Road, Eugene, OR 97402-9132, USA
For US and Canada, Toll-Free Phone: 1-800-438-2209 • Fax: 1-800-438-0228
Phone: (541)465-8300 • Fax: (541)335-0305 • Web: <http://www.probes.com>
Technical Assistance: (541)335-0353 • E-mail: tech@probes.com

COMPOSITION / INFORMATION ON INGREDIENTS

• **INGREDIENT A:** SYBR Safe™ stain

Unit Size: < 10 mg
Molecular Formula: N/A
Molecular Weight: 0.0
CAS Number/Name: N/A

• **Other Ingredients (See attached)**

• **INGREDIENT B:** dimethylsulfoxide (DMSO)

HAZARDS IDENTIFICATION

Emergency Overview: To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution. Not classified as hazardous according to criteria of Worksafe Australia.

POTENTIAL HEALTH EFFECTS

Inhalation: Not determined
Ingestion: Not determined
Skin: Not determined
Eyes: Not determined
Chronic Exposures: Not determined
Target Organs: Not determined

FIRST AID MEASURES

Wash thoroughly after handling. If eye or skin contact occurs, wash affected area with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

FIRE FIGHTING MEASURES

Not flammable

ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

HANDLING AND STORAGE

Desiccation recommended. Store at ≤ -20°C. Protect material from long-term exposure to light; may be exposed to light for short periods of time.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data: Not determined

MATERIAL SAFETY DATA SHEET (continued)

S33102, INGREDIENT A

PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Odor:	Not determined
Solubility in Water:	Low
Specific Gravity:	Not determined
pH:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Flash Point:	Not determined
Vapor Pressure:	Not determined

STABILITY AND REACTIVITY

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: No dangerous reactions identified.

Dangerous Products of Decomposition: No dangerous decomposition products identified.

TOXICOLOGICAL INFORMATION

RTECS Number:	Not in RTECS
Toxicity:	Toxicity data: LC ₅₀ : > 750 mg/L, Acute Toxicity Test, fathead minnows, 96 hour exposure, 100% survival.
Health Hazards:	Mutation Data: Cell transformation, Syrian hamster embryo (SHE) cells, negative; Forward gene mutation at the thymidine kinase (TK) locus, mouse lymphoma (L5178Y) cells, negative with and without metabolic activation; Chromosomal aberrations, human peripheral blood lymphocytes, negative with and without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), positive with metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), negative without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA100, TA1535, TA1537), negative with and without metabolic activation.
Potential Hazards:	We are not aware of any reported health hazards for this product. We recommend treating all chemicals with caution.
Carcinogenicity:	Not listed by NTP, IARC or OSHA.

ECOLOGICAL INFORMATION

We are not aware of any ecological hazards presented by this material.

DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for applicable requirements.

TRANSPORT INFORMATION

Hazard Class:	No physical hazards identified
Identification Number:	Not listed
Packing Group:	Not classified

Proper Shipping Name (Technical Name): Not regulated for transport

REGULATIONS

US Toxic Substances Control Act (TSCA):	Not listed
US Other:	None identified
EEC EINECS Number:	Not Listed
EEC Risk Statements:	NONE
Other Country Regulations:	None identified

OTHER INFORMATION

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. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Molecular Probes shall not be held liable for any damage resulting from handling or contact with the above product.

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COMPOSITION / INFORMATION ON INGREDIENTS

• **INGREDIENT B:** dimethylsulfoxide (DMSO)

Unit Size: 400 µL
Molecular Formula: C₂H₆OS
Molecular Weight: 78.13
CAS Number/Name: 67-68-5 / Methane, sulfinylbis

• **Other Ingredients (See attached)**

• **INGREDIENT A:** SYBR Safe™ stain

HAZARDS IDENTIFICATION

Emergency Overview: Irritating to eyes, respiratory system and skin. Readily absorbed through the skin. Hazardous according to the Criteria of Worksafe Australia.

POTENTIAL HEALTH EFFECTS

Inhalation: See Emergency Overview above.
Ingestion: See Emergency Overview above.
Skin: See Emergency Overview above.
Eyes: See Emergency Overview above.
Chronic Exposures: Not determined
Target Organs: Eyes. Skin.

FIRST AID MEASURES

Potentially harmful. Avoid exposure. Wash thoroughly after handling. If eye or skin contact occurs, wash affected area with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

FIRE FIGHTING MEASURES

Use dry chemical powder or appropriate foam extinguisher.

ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

HANDLING AND STORAGE

Storage conditions are not critical.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data: Not determined

MATERIAL SAFETY DATA SHEET (continued)

S33102, INGREDIENT B

PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Odor:	Not determined
Solubility in Water:	High
Specific Gravity:	1.101
pH:	Not determined
Boiling Point:	189° C
Melting Point:	18.4° C
Flash Point:	94° C
Vapor Pressure:	0.42 mm 20° C

STABILITY AND REACTIVITY

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: Incompatible with acid chlorides, phosphorous halides, strong acids, and strong oxidizing agents.

Dangerous Products of Decomposition: Carbon monoxide, carbon dioxide, sulfur dioxide.

TOXICOLOGICAL INFORMATION

RECS Number:	PV6210000
Toxicity:	LD ₅₀ : 14.5 g/kg, oral, rat; LD ₅₀ : 8.2 g/kg, intraperitoneal, rat.
Health Hazards:	Irritation data: 500 mg/24H, Std. Draize, skin, rabbit, mild; 500 mg/24H, Std. Draize, eyes, rabbit, mild.
Potential Hazards:	See Toxicity and Health Hazards Data above.
Carcinogenicity:	Not listed by NTP, IARC or OSHA.

ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water course, or sewage system.

DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal.

TRANSPORT INFORMATION

Hazard Class:	Not determined
Identification Number:	Not determined
Packing Group:	Not classified

Proper Shipping Name (Technical Name):

REGULATIONS

US Toxic Substances Control Act (TSCA): Listed

US Other: Not applicable

EEC EINECS Number: 200-664-3

EEC Risk Statements: Irritant R36/37/38 Irritating to eyes, respiratory system and skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear Suitable protective clothing. S23 Do not breathe vapor.

Other Country Regulations: German regulatory: 1WGK

OTHER INFORMATION

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