



SAFETY DATA SHEET

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

Identification of the substance/preparation

Product code S33100
Product name SYBR® Safe DNA gel stain in 0.5X TBE

Company/Undertaking Identification

Life Technologies
5791 VAN ALLEN WAY
PO BOX 6482
CARLSBAD, CA 92008
+1 760 603 7200

INVITROGEN CORPORATION
5250 MAINWAY DRIVE
BURLINGTON, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response:

866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

GHS - Classification

Signal Word
WARNING



Health Hazard

Mutagenicity

Mutagenic Category 2

Physical Hazards

not hazardous

Hazard statements

H341 - Suspected of causing genetic defects

Precautionary statements

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P281 - Use personal protective equipment as required

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

Mutation Data: Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA102), positive with metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA98, TA102), positive without metabolic activation.

Reproductive toxicity

none

Sensitization

none

Target Organ Effects

No known effects under normal use conditions.

HMIS

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| | |
|--------------|--------------------|
| Health | 1 * Chronic Hazard |
| Flammability | 0 |
| Reactivity | 0 |

3. Composition/information on ingredients

| Chemical Name | CAS-No | EINECS-No | Weight % |
|------------------|-----------|-----------|----------|
| SYBR® Safe stain | NOT FOUND | - | 0.1-1.0 |

We recommend handling all chemicals with caution.

4. First aid measures

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

5. Fire-fighting measures

| | |
|--|--|
| Suitable extinguishing media | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Special protective equipment for 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. |

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

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

8. Exposure controls/personal protection

Exposure limits

| Chemical Name | OSHA PEL | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|------------------|----------|--------------------|-----------------|------------------|
| SYBR® Safe stain | none | none | none | none |

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Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective 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.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious 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 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 | |
| pH VALUE | 8.3 | |

10. Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use.

Hazardous decomposition products None under normal use

polymerization Hazardous polymerisation does not occur.

11. Toxicological information

Acute toxicity

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|------------------|------------------------|---------------------------|------------------------------|
| SYBR® Safe stain | 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 May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation.

| | |
|------------------------------|---|
| Ingestion | May be harmful if swallowed. |
| Carcinogenic effects | none |
| Mutagenic effects | Mutation Data: Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA102), positive with metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA98, TA102), positive without metabolic activation. |
| Reproductive toxicity | none |
| Sensitization | none |
| Target Organ Effects | No known effects under normal use conditions. |

12. Ecological information

| | |
|----------------------------|---------------------------|
| Ecotoxicity effects | No information available. |
| Mobility | No information available. |
| Biodegradation | Inherently biodegradable |
| Bioaccumulation | Does not bioaccumulate. |

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

| | |
|-----------------------------|---|
| IATA | |
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations |
| Hazard class | none |
| Subsidiary Class | none |
| Packing group | none |
| UN-No | None |

15. Regulatory information

| Component | TSCA |
|---|------|
| SYBR® Safe stain NOT FOUND (0.1-1.0) | - |

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 |
|------------------|---------------------|------------------|--------------------|----------------|--------------------|
| SYBR® Safe stain | - | - | - | - | - |

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

Reason for Revision (M)SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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 present unknown hazards and should be used with caution. Since the Company 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. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet

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