

# SAFETY DATA SHEET

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

### Identification of the substance/preparation

Product code	S33102
Product name	SYBR Safe® DNA gel stain *10,000X concentrate in DMSO*

# 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

nould nuzula	
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2B
Specific target organ systemic toxicity (single exposure)	Category 3

### **Physical Hazards**

H227 - Combustible liquid	
GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 4

### **Hazard statements**

H316 - Causes mild skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation

# Precautionary statements

P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P264 - Wash hands thoroughly after handling

# Principle Routes of Exposure/

Potential Health effects	
Eyes	Irritating to eyes.
Skin	Components of the product may be absorbed into the body through the skin. Mild skin irritation.
Inhalation Ingestion	May cause irritation of respiratory tract. May be harmful if swallowed.

Specific effects Carcinogenic effects	not applicable
0	
Mutagenic effects	In vivo tests did not show mutagenic effects. In vitro tests have shown mutagenic effects.
Reproductive toxicity	not applicable
Sensitization	not applicable
Target Organ Effects	No known effects under normal use conditions.

HMIS

Health	2
Flammability	2
Reactivity	0

3. Composition/information on ingredients					
Chemical Name CAS-No EINECS-No Weight %					
dimethylsulfoxide	67-68-5	200-664-3	60-100		
SYBR® Safe stain NOT FOUND - 0.1-1.0					

We recommend handling all chemicals with caution.

4. First aid measures				
Skin contact	Wash off immediately 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. Consult 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	
Special protective equipment for firefighters	

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus and protective suit.

# 6. Accidental release measures

```
Personal precautions
Methods for cleaning up
```

Use personal protective equipment. 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

Avoid contact with skin and eyes. Always wear reccommended Personal Protective Equipment. Keep in properly labelled containers.

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
SYBR® Safe stain	none	none	none	none

### 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 butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.
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	° <b>C</b> 189	°F	372
Melting point/range	° <b>C</b> 18.4	°F	65
Flash point	° <b>C</b> 94	°F	201
Autoignition temperature	°C no data available	°F	no data available
Oxidizing properties	No information available.		
Water solubility	soluble		

# 10. Stability and reactivity

Stability Materials to avoid Hazardous decomposition products	Stable under normal conditions. No information available. No information available.
polymerization	Hazardous polymerisation does not occur.

Revision Date11-Jul-2012Product code\$33102

# 11. Toxicological information

# Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
dimethylsulfoxide	14500 mg/kg Oral LD50	no data available	no data available
SYBR® Safe stain	no data available	no data available	no data available

# Principle Routes of Exposure/

Potential Health effects	_
Eyes	Irritating to eyes.
Skin	Components of the product may be absorbed into the body through the skin Mild skin irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	No information available.
Mutagenic effects	In vivo tests did not show mutagenic effects. In vitro tests have shown mutagenic effects.
Reproductive toxicity	No information available.
Sensitization	No information available.

### 12. Ecological information

Ecotoxicity effects	Daphnia magna (Water flea)		
Mobility	Completely soluble		
Biodegradation	Inherently biodegradable		
Bioaccumulation	Does not bioaccumulate.		

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
dimethylsulfoxide	Skeletonema	Daphnia species			logPow-2.03
67-68-5	costatum EC5012350	EC50=7000 mg/L (24			-
	- 25500 mg/L (96 h)	h)			

#### 13. Disposal considerations

Dispose of in accordance with local regulations

SYBR Safe DNA gel stain is not classified as hazardous waste under U.S. Federal regulations (Resource Conservation and Recovery Act (RCRA)). SYBR Safe stain meets the requirements of the U.S. Clean Water Act and the U.S. National Pollutant Discharge Elimination System (NPDES) regulations.

### 14. Transport information

# ΙΑΤΑ

Proper shipping name Hazard class Not classified as dangerous in the meaning of transport regulations none

Revision Date11-Jul-2012Product code\$33102

Page 5 / 7 Product name SYBR Safe® DNA gel stain \*10,000X concentrate in DMSO\*

# 15. Regulatory information

Component	TSCA
dimethylsulfoxide	Listed
67-68-5 ( 60-100 )	
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
dimethylsulfoxide	-	-	-	-	-
SYBR® Safe stain	-	-	-	-	-

### California Proposition 65

This product does not contain chemicals listed under Proposition 65

### WHMIS Hazard Class

D2B Toxic materials B3 Combustible liquid



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.

### References

https://products.invitrogen.com/ivgn/product/S33102?ICID=search-s33102

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 unkown 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 WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.

**End of Safety Data Sheet**