

Safety Data Sheet

(In accordance with COMMISSION REGULATION (EU) No 830/2015)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product code S33102

Product name SYBR Safe® DNA gel stain

Chemical Name Not Applicable

REACH registration number No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses For research use only

Use Description Code SU22 - Professional uses: Public domain (administration, education,

entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 -

Laboratory chemicals, SU24 - Scientific research and development

Uses advised against Not for consumer use.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

LIFE TECHNOLOGIES EUROPE BV KWARTSWEG 2 2665 NN BLEISWIJK NETHERLANDS 31-(0)180 392 400

Email: MSDS@lifetech.com

Life Technologies Limited 3 Fountain Drive Inchinnan Business Park Paisley PA4 9RF, UK +44 (0)141 814 6100

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1

[or Dangerous Goods] Incident. Spill, Leak, Fire, 703-527-3887

Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: +1 703-741-5970

Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)

CHEMTREC UK (London) +(44)-870-8200418 (Greeting Language: English)

Revision date 26-Mar-2019 Product code S33102 Product name SYBR Safe® DNA gel stain

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Physical hazards

Not Hazardous

Health hazards

Not Hazardous

Environmental hazards

Not Hazardous

Additional information

Not Applicable

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms

None

Signal Word

None

Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Not Applicable

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SECTION 3: Composition/information on ingredients

Component	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No 1272/2008 [CLP]
Dimethyl sulfoxide 67-68-5 (95-100)	67-68-5	200-664-3	95-100	-	Not classified
SYBR® Safe 98 (0.1-1)	-	Listed	0.1-1	-	-

SECTION 4: First aid measures

Description of first aid measures

Skin contact Rinse with plenty of water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Ingestion Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

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

No information available.

Special hazards arising from the substance or mixture

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Advice for fire-fighters

Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Use personal protection equipment See Section 8 for more detail.

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Dimethyl sulfoxide 67-68-5	None	None	None
SYBR® Safe 98	None	None	None

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA)
Dimethyl sulfoxide	50 ppm	None	50 ppm	None
67-68-5	160 mg/m ³		160 mg/m ³	
SYBR® Safe 98	None	None	None	None

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Dimethyl sulfoxide	None	50 ppm exposure factor 2	None	None
67-68-5		160 mg/m ³ exposure factor 2		
SYBR® Safe 98	None	None	None	None

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
Dimethyl sulfoxide 67-68-5	50 ppm TLV NGV; 150 mg/m³ TLV NGV	None	None	None
SYBR® Safe 98	None	None	None	None

European Union	France OEL (VME)	Germany OEL (TWA)
None	None	50 ppm exposure factor 2
		160 mg/m ³ exposure factor 2
None	None	None
	None	None None

Chemical Name	Italy OEL (TWA)	Portugal	Netherlands OEL (MAC)	Finland OEL (TWA)
Dimethyl sulfoxide 67-68-5	None	None	None	None
SYBR® Safe 98	None	None	None	None

	Chemical Name	Austria	Denmark	Poland	Switzerland
Ī	Dimethyl sulfoxide	50 ppm	None	None	None
	67-68-5	160 mg/m ³			
Ī	SYBR® Safe 98	None	None	None	None
-					

Chemical Name	Ireland	Norway	Lithuania OEL (TWA)	Spain OEL (TWA)
Dimethyl sulfoxide 67-68-5	None	None	50 ppm 150 mg/m ³	None
SYBR® Safe 98	None	None	None	None

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Revision date 26-Mar-2019 **Product code** S33102 Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Wear suitable protective clothing. **Skin and Body Protection**

No data

No data

No data

No data

61% - 64%

2.4% - 2.8%

No data available

No data available No data available

Mixture has not been tested

Mixture has not been tested

Mixture has not been tested

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance liquid

Odour No data available

6-8 Ha

Melting point / melting range Boiling point / boiling range

Flash point

Autoignition Temperature

Decomposition temperature

Evaporation rate

Flammability (solid, gas) Upper explosion limit

Lower explosion limit **Vapour Pressure** Relative density

Specific gravity Solubility

Partition coefficient:

n-octanol/water

Viscosity

Explosive properties

Oxidising properties

Other information No data available.

°C 18 - 19 °F 64.4 - 66.2 °C 188 - 190 °F 370 - 374 °C 87 - 89 °F 188.6 - 192.2

°C 214 - 216 °F 417.2 - 420.8

°C Mixture has not been tested °F Mixture has not been tested

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.

Strong acids. Strong oxidising agents. Incompatible materials

Hazardous decomposition

products

No data available.

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SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Dimethyl sulfoxide	14500 mg/kg Oral LD50	>40000 mg/kg bw	>5000 mg/l
SYBR® Safe 98	No data available	No data available	No data available

Principal Routes of Exposure,

Skin corrosion/irritation Mild skin irritant, Components of the product may be absorbed into the body

through the skin

Serious eye damage/irritation Conclusive but not sufficient for classification

Respiratory or skin sensitisation

Conclusive but not sufficient for classification

Specific target organ toxicity Conclusive but not sufficient for classification (STOT) – single exposure

Specific target organ toxicity Conclusive but not sufficient for classification (STOT) – repeated exposure

Carcinogenicity Conclusive but not sufficient for classification

Germ cell mutagenicity 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 Conclusive but not sufficient for classification

Aspiration Hazard Conclusive but not sufficient for classification

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SECTION 12: Ecological information

Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Dimethyl sulfoxide	Skeletonema costatum EC5012350 - 25500 mg/L (96 h)	Daphnia species EC50=7000 mg/L (24 h)	No data available	No data available	logPow-2.03
SYBR® Safe 98	No data available	No data available	No data available	No data available	No data available

Persistence and degradability Inherently biodegradable.

Bioaccumulative potential Material does not bioaccumulate.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

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SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern

None.

EU REACH (1907/2006) - Annex XIV - Substances Subject to Authorization None

Restricted substances under EC 1907/2006, Annex XVII None.

Substances listed under Annex I of Regulation (EC) No 689/2008 None.

Restricted substances under Annex V of Regulation (EC) No 689/2008 None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC None.

German Water hazard classes (Wassergefährdungsklassen)

Chemical Name	Weight-%	Germany - Water Classification - Substances
		According to AwSV Classified By or Based on the VwVwS
Dimethyl sulfoxide	95-100	hazard class 1 - slightly hazardous to water

Other International Inventories

	Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
	Dimethyl sulfoxide	Listed	-	Listed	Listed
ı	SYBR® Safe 98	-	-	-	-

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Dimethyl sulfoxide	Listed	Listed	Listed	=
SYBR® Safe 98	-	-	-	-

Chemical safety assessment

No Chemical safety assessment has been carried out.

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SECTION 16: Other information

Reason for revision Update according to Commission Regulation (EU) No 830/2015

Revision number 6

Revision date 26-Mar-2019

References

ECHA: http://echa.europa.eu/TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Not classified

"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 SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"
