

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 S11494

Product name SYBR® Gold nucleic acid 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 - Public domain (administration, education, entertainment, services,

craftsmen), PROC15 - Use as a 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

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 12-Sep-2017 Product code 511494

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

No Pictogram

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

Componen	t	CAS-No.	EINECS-No.	Weight percent	REACH registration number	Classification according to Regulation (EC) No 1272/2008 [CLP]
SYBR Gold (<0.1)	I	-	Not Listed	<0.1	-	Not classified
Dimethyl sulfor 67-68-5 (95-1		67-68-5	200-664-3	95-100	-	Not classified

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.

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

None

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 Not Known.

Advice for fire-fighters

Standard procedure for chemical fires.

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. Avoid discharge into drains and waterways whenever possible.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

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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.

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SECTION 8: Exposure controls/personal protection

Control parameters

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

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

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

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

Chemical Name	European Union	France OEL (VME)	Germany OEL (TWA)
SYBR Gold	None	None	None
Dimethyl sulfoxide 67-68-5	None	None	50 ppm exposure factor 2 160 mg/m³ exposure factor 2

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

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

Chemical Name	Ireland	Norway	Lithuania OEL (TWA)	Spain OEL (TWA)
SYBR Gold	None	None	None	None
Dimethyl sulfoxide 67-68-5	None	None	50 ppm 150 mg/m³	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.

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Eye protection Tight sealing safety goggles.

Wear suitable protective clothing. Skin and body protection

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

°F Mixture has not been tested

Information on basic physical and chemical properties

Appearance Liquid

no data available Odour

Ha 6-8

Melting point / melting range °C 18 - 19 °F 64.4 - 66.2 **Boiling point / boiling range** °C 188 - 190 °F 370 - 374 Flash point °C 87 - 89 °F 188.6 - 192.2 **Autoignition temperature** °C 214 - 216 °F 417.2 - 420.8

Decomposition temperature

°C Mixture has not been tested

Evaporation rate No data available Flammability (solid, gas) No data available 61% - 64% Upper explosion limit Lower explosion limit 2.4% - 2.8%

Vapour Pressure Mixture has not been tested Relative density Mixture has not been tested

Specific gravity No data available Solubility no data available Partition coefficient: No data available

n-octanol/water

Mixture has not been tested **Explosive properties**

No data available OTHER INFORMATION

SECTION 10: Stability and reactivity

None known. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to Avoid No information available.

Incompatible Materials Strong acids. Strong oxidising agents.

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)
SYBR Gold	No data available	No data available	No data available
Dimethyl sulfoxide	14500 mg/kg Oral LD50	>40000 mg/kg bw	>5000 mg/l

Principal Routes of Exposure, Potential health effects

Mild skin irritant, Mild eye irritation, Components of the product may be absorbed Irritation

into the body through the skin

Corrosivity Conclusive but not sufficient for classification

Sensitisation Conclusive but not sufficient for classification

Conclusive but not sufficient for classification STOT - Single Exposure

Conclusive but not sufficient for classification **STOT - Repeated Exposure**

Carcinogenicity Conclusive but not sufficient for classification

Mutagenicity Conclusive but not sufficient for classification

Reproductive toxicity Conclusive but not sufficient for classification

Conclusive but not sufficient for classification **Aspiration Hazard**

SECTION 12: Ecological information

Toxicity

The environmental impact of this product has not been fully investigated.

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

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

No information available.

No information available. Other adverse effects

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.

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SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations.

UN Number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental Hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

SECTION 15: Regulatory information

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

Substances of Very High Concern

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

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	.	Classification (VwVwS) -	Classification (VwVwS) -	Germany - Water Classification (VwVwS) - Annex 3
Dimethyl sulfoxide	95-100			hazard class 1 - low hazard to waters

Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
SYBR Gold	-	-	=	-
Dimethyl sulfoxide	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
SYBR Gold	=	-	•	-
Dimethyl sulfoxide	Listed	Listed	Listed	-

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

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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]:

"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"

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