

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### SYBR® Green I Nucleic Acid Gel Stain

Version 2.0

Revision Date 29.06.2021

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SYBR® Green I Nucleic Acid Gel Stain

Material number : 50513

##### Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.  
Suite 610, 12 Century Circuit  
Norwest NSW 2153, Australia

Lonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

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E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

##### Recommended use of the chemical and restrictions on use

Recommended use : Scientific research and development

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Flammable liquids : Category 4

##### GHS label elements

Hazard pictograms : None

Signal word : Warning

Hazard statements : H227 Combustible liquid.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

##### Other hazards which do not result in classification

No information available.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## SYBR® Green I Nucleic Acid Gel Stain

### Hazardous components

| Chemical name      | CAS-No. | Concentration (% w/w) |
|--------------------|---------|-----------------------|
| Dimethyl sulfoxide | 67-68-5 | >= 90 - <= 100        |

### SECTION 4. FIRST AID MEASURES

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Get medical attention if irritation develops and persists.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Do not induce vomiting without medical advice.  
Immediately give large quantities of water to drink.  
Call a physician immediately.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder  
Water spray  
Foam
- Hazardous combustion products : Carbon oxides (COx)  
Sulphur oxides (SOx)
- Specific extinguishing methods : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions : Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Do not flush into surface water or sanitary sewer system.

## SYBR® Green I Nucleic Acid Gel Stain

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Highly flammable.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.
- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.
- Conditions for safe storage : Keep frozen or refrigerated.  
Keep container closed when not in use.  
Remove all sources of ignition.  
To maintain product quality, do not store in heat or direct sunlight.
- Recommended storage temperature : -20 °C
- Further information on storage stability : Store dry.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components         | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------|---------|-------------------------------|--|-------|
| Dimethyl sulfoxide | 67-68-5 | TWA                           | 250 ppm  | WEEL  |

#### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection  
Material : Nitrile rubber  
Rate of permeability : > 480 min
- Remarks : Wear suitable gloves.
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid

**SYBR® Green I Nucleic Acid Gel Stain**

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|  |   |                         |
|--|---|-------------------------|
| Colour   | : | colourless              |
| Odour  | : | no data available       |
| Odour Threshold                                  | : | no data available       |
| pH   | : | no data available       |
| Melting point/freezing point                     | : | no data available       |
| Initial boiling point and boiling range          | : | no data available       |
| Flash point                                      | : | 89 °C                   |
| Evaporation rate                                 | : | no data available       |
| Flammability (solid, gas)                        | : | no data available       |
| Flammability (liquids)                           | : | no data available       |
| Upper explosion limit / upper flammability limit | : | no data available       |
| Lower explosion limit / Lower flammability limit | : | no data available       |
| Vapour pressure                                  | : | 0,56 hPa                |
| Relative vapour density                          | : | no data available       |
| Relative density                                 | : | no data available       |
| Density  | : | 1,101 g/cm <sup>3</sup> |
| Water solubility                                 | : | no data available       |
| Partition coefficient: n-octanol/water           | : | no data available       |
| Auto-ignition temperature                        | : | no data available       |
| Decomposition temperature                        | : | no data available       |
| Viscosity, dynamic                               | : | no data available       |
| Viscosity, kinematic                             | : | no data available       |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Stable under recommended storage conditions. |
| Chemical stability                 | : | Stable under normal conditions.              |
| Possibility of hazardous reactions | : | Stable under normal conditions.              |
| Conditions to avoid                | : | no data available                            |
| Incompatible materials             | : | Strong oxidizing agents                      |

## SYBR® Green I Nucleic Acid Gel Stain

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Hazardous decomposition products : No decomposition if stored normally.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Further information

Remarks: No data is available on the product itself.

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxicity to fish : Remarks: no data available

#### Persistence and degradability

Biodegradability : Result: no data available

#### Bioaccumulative potential

Bioaccumulation : Remarks: no data available

#### Components:

#### Dimethyl sulfoxide:

Partition coefficient: n-octanol/water : log Pow: -1,35

#### Mobility in soil

Distribution among environmental compartments : Remarks: no data available

#### Other adverse effects

Additional ecological information : no data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

**IATA** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**IMDG** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : Marine pollutant: no

**ADR** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**RID** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 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**

**Standard for the Uniform Scheduling of Medicines and Poisons**

Not applicable

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### SECTION 16. OTHER INFORMATION

**Further information**

Revision Date : 29.06.2021

Other information :

## SYBR® Green I Nucleic Acid Gel Stain

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### Full text of other abbreviations

WEEL : US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

WEEL / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : dd.mm.yyyy

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