

**Product name:** SureSelect XT HS2 TE Kit, ILM Hyb Module, Box 2 (Post PCR), 16 Rxns  
**Part no.:** 5191-6686

This product is composed of the following:

### Kit Components, Reagents

| Box/Module Part number | Box/Module Name | Kit Component Part Number | Kit Component Name                         | Qty Units | CLP |
|------------------------|-----------------|---------------------------|--------------------------------------------|-----------|-----|
| -                      | -               | 5190-4383                 | SureSelect RNase Block                     | 1         | No  |
| -                      | -               | 5190-7327                 | SureSelect Fast Hybridization Buffer       | 1         | No  |
| -                      | -               | 5190-7742                 | Herculase II Fusion DNA Polymerase         | 1         | No  |
| -                      | -               | 5190-9730                 | SureSelect Post- Capture Primer Mix        | 1         | No  |
| -                      | -               | 5191-6678                 | SureSelect XT HS2 Blocker Mix              | 1         | No  |
| -                      | -               | 5191-6680                 | 5X Herculase II Reaction Buffer with dNTPs | 1         | No  |

Article SDSs, if maintained, are available on [www.agilent.com](http://www.agilent.com). We recommend using the article product code when searching. SDSs are only available for a limited set of countries.

### Transport Information for the Kit:

**Dangerous Goods classification for:** 5191-6686

| ADR/RID        | IMDG           | IATA           |
|----------------|----------------|----------------|
| Not regulated. | Not regulated. | Not regulated. |

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SDSs for each individual Kit component follow this cover sheet.

# SAFETY DATA SHEET

SureSelect XT HS2 Blocker Mix

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

### 1.1 Product identifier

**Product name** : SureSelect XT HS2 Blocker Mix  
**Part no.** : 5191-6678

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.08 ml (reactions)  
**Uses advised against** : Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Supplemental label elements** : Not applicable.

## SECTION 2: Hazards identification

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

### Special packaging requirements

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : No specific data.

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## SECTION 7: Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Not available.

#### PNECs

Not available.

### 8.2 Exposure controls

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

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SECTION 8: Exposure controls/personal protection

- Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state

: Liquid.

Colour

: Not available.

Odour

: Not available.

Odour threshold

: Not available.

Melting point/freezing point

: 0°C

Boiling point or initial boiling point and boiling range

: 100°C

Flammability

: Not applicable.

Lower and upper explosion limit/flammability limit

: Not available.

Flash point

: Not available.

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

pH

: 7.5

Viscosity

: Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

Solubility

|       |         |
|-------|---------|
| Media | Result  |
| water | Soluble |

Partition coefficient: n-octanol/water

: Not applicable.

Vapour pressure

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |      |        |
|-----------------|-------------------------|-----|--------|-------------------------|------|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa  | Method |
| water           | 17.5                    | 2.3 | -      | 92.258                  | 12.3 | -      |

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SECTION 9: Physical and chemical properties

Relative density : Not available.  
Relative vapour density : Not available.  
Particle characteristics  
Median particle size : Not applicable.

9.2 Other information  
9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.  
Oxidising properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.  
Evaporation rate : Not available.  
Physical/chemical properties comments : Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity  
Conclusion/Summary : Not available.  
[Product]

Acute toxicity estimates  
N/A

Skin corrosion/irritation  
Conclusion/Summary : Not available.  
[Product]

Serious eye damage/eye irritation  
Conclusion/Summary : Not available.  
[Product]

Respiratory corrosion/irritation  
Conclusion/Summary : Not available.  
[Product]

## SECTION 11: Toxicological information

### Respiratory or skin sensitization

#### Skin

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory

**Conclusion/Summary** : Not available.  
**[Product]**

### Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.



SECTION 11: Toxicological information

Potential chronic health effects

- Conclusion/Summary : Not available.
- [Product]
- General : No known significant effects or critical hazards.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

- Conclusion/Summary : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
- [Product]

SECTION 12: Ecological information

12.1 Toxicity

- Conclusion/Summary : Not available.
- [Product]

12.2 Persistence and degradability

- Not available.
- Conclusion/Summary : Not available.
- [Product]

12.3 Bioaccumulative potential

- Not available.

12.4 Mobility in soil

- Soil/water partition coefficient
- Not available.

Results of PMT and vPvM assessment

- This mixture does not contain any substances that are assessed to be a PMT or a vPvM.
- Mobility : Not available.
- Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

- Regulation (EC) No. 1907/2006 [REACH]
- This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Regulation (EC) No. 1272/2008 [CLP]
- This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
- Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

- Conclusion/Summary : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
- [Product]

12.7 Other adverse effects

- No known significant effects or critical hazards.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Product

- Methods of disposal** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

|                                        | ADR/RID        | IMDG           | IATA           |
|----------------------------------------|----------------|----------------|----------------|
| <b>14.1 UN number or ID number</b>     | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            |

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Transport in bulk according to IMO instruments** : Not available.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU Regulation (EC) No. 1907/2006 (REACH)Annex XIV - List of substances subject to authorisationAnnex XIVSubstances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

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SECTION 15: Regulatory information

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia : Not determined.
- Canada : Not determined.
- China : Not determined.
- Eurasian Economic Union : Russian Federation inventory: Not determined.
- Japan : Japan inventory (CSCL): Not determined.  
Japan inventory (ISHL): All components are listed or exempted.
- New Zealand : All components are listed or exempted.
- Philippines : Not determined.
- Republic of Korea : Not determined.
- Taiwan : Not determined.
- Thailand : Not determined.
- Turkey : Not determined.
- United States : All components are active or exempted.
- Viet Nam : Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

- : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

**Date of issue/ Date of revision** : 23/10/2025

**Date of previous issue** : No previous validation

**Version** : 1

**Notice to reader**

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

# SAFETY DATA SHEET

## SureSelect Fast Hybridization Buffer

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

#### 1.1 Product identifier

**Product name** : SureSelect Fast Hybridization Buffer  
**Part no.** : 5190-7327

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.45 ml  
**Uses advised against** : Not for use in diagnostic procedures.

#### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

#### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

**Ingredients of unknown ecotoxicity** : Contains 31.3% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

##### Precautionary statements

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Not applicable.

**SureSelect Fast Hybridization Buffer**

## SECTION 2: Hazards identification

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

**Special packaging requirements**

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

**Over-exposure signs/symptoms**

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Not available.

#### PNECs

Not available.

### 8.2 Exposure controls

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



SureSelect Fast Hybridization Buffer

SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection             | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection                 |                                                                                                                                                                                                                                                                                                                                                       |
| Hand protection                 | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.                                                                                                                                                             |
| Body protection                 | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                         |
| Other skin protection           | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                   |
| Respiratory protection          | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.                                                                            |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                                |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| Appearance                                               |                                                                                                                                  |       |        |       |         |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|---------|
| Physical state                                           | : Liquid.                                                                                                                        |       |        |       |         |
| Colour                                                   | : Not available.                                                                                                                 |       |        |       |         |
| Odour                                                    | : Not available.                                                                                                                 |       |        |       |         |
| Odour threshold                                          | : Not available.                                                                                                                 |       |        |       |         |
| Melting point/freezing point                             | : Not available.                                                                                                                 |       |        |       |         |
| Boiling point or initial boiling point and boiling range | : Not available.                                                                                                                 |       |        |       |         |
| Flammability                                             | : Not applicable.                                                                                                                |       |        |       |         |
| Lower and upper explosion limit/flammability limit       | : Not available.                                                                                                                 |       |        |       |         |
| Flash point                                              | : Not available.                                                                                                                 |       |        |       |         |
| Auto-ignition temperature                                | : Not available.                                                                                                                 |       |        |       |         |
| Decomposition temperature                                | : Not available.                                                                                                                 |       |        |       |         |
| pH                                                       | : Not available.                                                                                                                 |       |        |       |         |
| Viscosity                                                | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |       |        |       |         |
| Solubility                                               | <table><tr><th>Media</th><th>Result</th></tr><tr><td>water</td><td>Soluble</td></tr></table>                                     | Media | Result | water | Soluble |
| Media                                                    | Result                                                                                                                           |       |        |       |         |
| water                                                    | Soluble                                                                                                                          |       |        |       |         |
| Partition coefficient: n-octanol/water                   | : Not applicable.                                                                                                                |       |        |       |         |

SureSelect Fast Hybridization Buffer

SECTION 9: Physical and chemical properties

|                                 |   |                 |                         |     |        |                         |      |        |
|---------------------------------|---|-----------------|-------------------------|-----|--------|-------------------------|------|--------|
| Vapour pressure                 | : | Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |      |        |
|                                 |   |                 | mm Hg                   | kPa | Method | mm Hg                   | kPa  | Method |
|                                 |   | water           | 17.5                    | 2.3 | -      | 92.258                  | 12.3 | -      |
| Relative density                | : | Not available.  |                         |     |        |                         |      |        |
| Relative vapour density         | : | Not available.  |                         |     |        |                         |      |        |
| <u>Particle characteristics</u> |   |                 |                         |     |        |                         |      |        |
| Median particle size            | : | Not applicable. |                         |     |        |                         |      |        |

9.2 Other information

9.2.1 Information with regard to physical hazard classes

|                      |   |                |
|----------------------|---|----------------|
| Explosive properties | : | Not available. |
| Oxidising properties | : | Not available. |

9.2.2 Other safety characteristics

|                                       |   |                |
|---------------------------------------|---|----------------|
| Miscible with water                   | : | Yes.           |
| Evaporation rate                      | : | Not available. |
| Physical/chemical properties comments | : | Not available. |

SECTION 10: Stability and reactivity

|                                         |   |                                                                                                      |
|-----------------------------------------|---|------------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | : | No specific test data related to reactivity available for this product or its ingredients.           |
| 10.2 Chemical stability                 | : | The product is stable.                                                                               |
| 10.3 Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                | : | No specific data.                                                                                    |
| 10.5 Incompatible materials             | : | May react or be incompatible with oxidising materials.                                               |
| 10.6 Hazardous decomposition products   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

|                                          |                  |
|------------------------------------------|------------------|
| <u>Acute toxicity</u>                    |                  |
| Conclusion/Summary [Product]             | : Not available. |
| Acute toxicity estimates                 |                  |
| N/A                                      |                  |
| <u>Skin corrosion/irritation</u>         |                  |
| Conclusion/Summary [Product]             | : Not available. |
| <u>Serious eye damage/eye irritation</u> |                  |
| Conclusion/Summary [Product]             | : Not available. |

**SECTION 11: Toxicological information**Respiratory corrosion/irritation

**Conclusion/Summary** : Not available.  
**[Product]**

Respiratory or skin sensitization

**Skin**

**Conclusion/Summary** : Not available.  
**[Product]**

**Respiratory**

**Conclusion/Summary** : Not available.  
**[Product]**

Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposureShort term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

## SECTION 11: Toxicological information

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary [Product]** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary [Product]** : Not available.

### 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Not available.

### Results of PMT and vPvM assessment

This mixture does not contain any substances that are assessed to be a PMT or a vPvM.

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

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

#### Regulation (EC) No. 1272/2008 [CLP]

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

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

SECTION 12: Ecological information

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

**Methods of disposal** :  Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

|                                 | ADR/RID        | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number or ID number     | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              |
| 14.5 Environmental hazards      | No.            | No.            | No.            |

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV  
Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

|                         |                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Australia               | : All components are listed or exempted.                                                                                           |
| Canada                  | : All components are listed or exempted.                                                                                           |
| China                   | : All components are listed or exempted.                                                                                           |
| Eurasian Economic Union | : Russian Federation inventory: All components are listed or exempted.                                                             |
| Japan                   | : Japan inventory (CSCL): All components are listed or exempted.<br>Japan inventory (ISHL): All components are listed or exempted. |
| New Zealand             | : All components are listed or exempted.                                                                                           |
| Philippines             | : All components are listed or exempted.                                                                                           |
| Republic of Korea       | : All components are listed or exempted.                                                                                           |
| Taiwan                  | : All components are listed or exempted.                                                                                           |
| Thailand                | : Not determined.                                                                                                                  |
| Turkey                  | : Not determined.                                                                                                                  |
| United States           | : All components are active or exempted.                                                                                           |
| Viet Nam                | : All components are listed or exempted.                                                                                           |

SECTION 15: Regulatory information

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
B = Bioaccumulative  
BCF = Bioconcentration Factor  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
M = Mobile  
N/A = Not available  
P = Persistent  
PBT = Persistent, Bioaccumulative and Toxic  
PMT = Persistent, Mobile and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SGG = Segregation Group  
T = Toxic  
vB = Very Bioaccumulative  
vM = Very Mobile  
vP = Very Persistent  
vPvB = Very Persistent and Very Bioaccumulative  
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

**Date of issue/ Date of revision** : 23/10/2025

**Date of previous issue** : 31/01/2025

**Version** : 1.2

Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

# SAFETY DATA SHEET

SureSelect RNase Block

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

### 1.1 Product identifier

**Product name** : SureSelect RNase Block  
**Part no.** : 5190-4383

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.016 ml  
**Uses advised against** : Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : Not applicable.



**SureSelect RNase Block****SECTION 2: Hazards identification**

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Tactile warning of danger** : Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers                                       | %         | Classification                                                                                     | Specific Conc. Limits, M-factors and ATEs | Type |
|-------------------------|---------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-------------------------------------------|------|
| glycerol                | REACH #: Annex V<br>EC: 200-289-5<br>CAS: 56-81-5 | ≥50 - ≤75 | Not classified.<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | -                                         | [1]  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed****Over-exposure signs/symptoms**

## SECTION 4: First aid measures

|              |                     |
|--------------|---------------------|
| Eye contact  | : No specific data. |
| Inhalation   | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion    | : No specific data. |

### 4.3 Indication of any immediate medical attention and special treatment needed

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Notes to physician  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment.                                                                                                    |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Suitable extinguishing media   | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known.                                                   |

### 5.2 Special hazards arising from the substance or mixture

|                                       |                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------|
| Hazards from the substance or mixture | : In a fire or if heated, a pressure increase will occur and the container may burst.              |
| Hazardous combustion products         | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |

### 5.3 Advice for firefighters

|                                                |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special precautions for fire-fighters          | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.                                                                                                                                                             |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                             |                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| For emergency responders    | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                               |

### 6.2 Environmental precautions

|                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.3 Methods and material for containment and cleaning up

|                         |                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SureSelect RNase Block

SECTION 6: Accidental release measures

6.4 Reference to other sections : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).  
Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Industrial applications, Professional applications.  
Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------|
| glycerol                | NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs)<br>OELV 8 hours: 10 mg/m³. Form: mist. |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Not available.

PNECs

Not available.

8.2 Exposure controls

SureSelect RNase Block

SECTION 8: Exposure controls/personal protection

- Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Individual protection measures
- Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection
- Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

- Appearance
- Physical state

: Liquid.
- Colour

: Not available.
- Odour

: Not available.
- Odour threshold

: Not available.
- Melting point/freezing point

: Not available.
- Boiling point or initial boiling point and boiling range

: Not available.
- Flammability

: Not applicable.
- Lower and upper explosion limit/flammability limit

: Not available.
- Flash point

:

|                 |            |        |          |        |
|-----------------|------------|--------|----------|--------|
|                 | Closed cup |        | Open cup |        |
| Ingredient name | °C         | Method | °C       | Method |
| glycerol        | -          | -      | 177      | -      |
- Auto-ignition temperature

:

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SECTION 9: Physical and chemical properties

|                                               |                                                                                                                                  |                                |               |                                |              |            |               |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|--------------------------------|--------------|------------|---------------|
|                                               | <b>Ingredient name</b>                                                                                                           | <b>°C</b>                      | <b>Method</b> |                                |              |            |               |
|                                               | glycerol                                                                                                                         | 370                            | -             |                                |              |            |               |
| <b>Decomposition temperature</b>              | : Not available.                                                                                                                 |                                |               |                                |              |            |               |
| <b>pH</b>                                     | : 7.6                                                                                                                            |                                |               |                                |              |            |               |
| <b>Viscosity</b>                              | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |                                |               |                                |              |            |               |
| <b>Solubility</b>                             | <b>Media</b>                                                                                                                     | <b>Result</b>                  |               |                                |              |            |               |
|                                               | water                                                                                                                            | Soluble                        |               |                                |              |            |               |
| <b>Partition coefficient: n-octanol/water</b> | : Not applicable.                                                                                                                |                                |               |                                |              |            |               |
| <b>Vapour pressure</b>                        |                                                                                                                                  | <b>Vapour Pressure at 20°C</b> |               | <b>Vapour pressure at 50°C</b> |              |            |               |
|                                               | <b>Ingredient name</b>                                                                                                           | <b>mm Hg</b>                   | <b>kPa</b>    | <b>Method</b>                  | <b>mm Hg</b> | <b>kPa</b> | <b>Method</b> |
|                                               | water                                                                                                                            | 17.5                           | 2.3           | -                              | 92.258       | 12.3       | -             |
|                                               | glycerol                                                                                                                         | 0.000075                       | 0.00001       | -                              | 0.0025       | 0.00033    | -             |
| <b>Relative density</b>                       | : Not available.                                                                                                                 |                                |               |                                |              |            |               |
| <b>Relative vapour density</b>                | : Not available.                                                                                                                 |                                |               |                                |              |            |               |
| <b><u>Particle characteristics</u></b>        |                                                                                                                                  |                                |               |                                |              |            |               |
| <b>Median particle size</b>                   | : Not applicable.                                                                                                                |                                |               |                                |              |            |               |

9.2 Other information

9.2.1 Information with regard to physical hazard classes

|                      |                  |
|----------------------|------------------|
| Explosive properties | : Not available. |
| Oxidising properties | : Not available. |

9.2.2 Other safety characteristics

|                                       |                  |
|---------------------------------------|------------------|
| Miscible with water                   | : Yes.           |
| Evaporation rate                      | : Not available. |
| Physical/chemical properties comments | : Not available. |

SECTION 10: Stability and reactivity

|                                         |                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| 10.2 Chemical stability                 | : The product is stable.                                                                               |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                | : No specific data.                                                                                    |
| 10.5 Incompatible materials             | : May react or be incompatible with oxidising materials.                                               |
| 10.6 Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Acute toxicity estimates

N/A

#### Skin corrosion/irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Serious eye damage/eye irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory corrosion/irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory or skin sensitization

##### Skin

**Conclusion/Summary** :  May cause skin sensitisation.  
**[Product]**

##### Respiratory

**Conclusion/Summary** : Not available.  
**[Product]**

#### Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

## SECTION 11: Toxicological information

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |                     |
|---------------------|---------------------|
| <b>Eye contact</b>  | : No specific data. |
| <b>Inhalation</b>   | : No specific data. |
| <b>Skin contact</b> | : No specific data. |
| <b>Ingestion</b>    | : No specific data. |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available.                                    |
| <b>General</b>                      | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>              | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>                 | : No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b>        | : No known significant effects or critical hazards. |

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

|                                     |                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conclusion/Summary [Product]</b> | : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008. |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

### 12.2 Persistence and degradability

Not available.

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Not available.

#### Results of PMT and vPvM assessment

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SECTION 12: Ecological information

This mixture does not contain any substances that are assessed to be a PMT or a vPvM.

- Mobility : Not available.
- Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

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

Regulation (EC) No. 1272/2008 [CLP]

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

- Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
- Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

- Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
- Packaging
  - Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
  - Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

|                                 | ADR/RID        | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number or ID number     | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              |
|                                 |                |                |                |



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SECTION 14: Transport information

|                               |     |     |     |
|-------------------------------|-----|-----|-----|
| 14.5<br>Environmental hazards | No. | No. | No. |
|-------------------------------|-----|-----|-----|

14.6 Special precautions for user : Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.  
Canada : Not determined.  
China : All components are listed or exempted.

**SECTION 15: Regulatory information**

|                                |                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                             |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>New Zealand</b>             | : Not determined.                                                                                  |
| <b>Philippines</b>             | : Not determined.                                                                                  |
| <b>Republic of Korea</b>       | : Not determined.                                                                                  |
| <b>Taiwan</b>                  | : All components are listed or exempted.                                                           |
| <b>Thailand</b>                | : Not determined.                                                                                  |
| <b>Turkey</b>                  | : Not determined.                                                                                  |
| <b>United States</b>           | : All components are active or exempted.                                                           |
| <b>Viet Nam</b>                | : Not determined.                                                                                  |

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications [CLP/GHS]**

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**SECTION 16: Other information**

Not applicable.

**Date of issue/ Date of revision** : 23/10/2025

**Date of previous issue** : 31/01/2025

**Version** : 1.2

**Notice to reader**

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# SAFETY DATA SHEET

SureSelect Post- Capture Primer Mix

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

### 1.1 Product identifier

**Product name** : SureSelect Post- Capture Primer Mix  
**Part no.** : 5190-9730

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.016 ml (16 reactions)  
**Uses advised against** : Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : Not applicable.

## SECTION 2: Hazards identification

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

### Special packaging requirements

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : No specific data.

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## SECTION 7: Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Not available.

#### PNECs

Not available.

### 8.2 Exposure controls

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

SureSelect Post- Capture Primer Mix

SECTION 8: Exposure controls/personal protection

- Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Colour

Odour

Odour threshold

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit/ flammability limit

Flash point

Auto-ignition temperature

Decomposition temperature

pH

Viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

: Liquid.

: Not available.

: Not available.

: Not available.

: 0°C

: 100°C

: Not applicable.

: Not available.

: Not available.

: Not available.

: Not available.

: 7.5

: Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

: Media

water

: Not applicable.

Vapour Pressure at 20°C

Vapour pressure at 50°C

| Ingredient name | mm Hg | kPa | Method | mm Hg  | kPa  | Method |
|-----------------|-------|-----|--------|--------|------|--------|
| water           | 17.5  | 2.3 | -      | 92.258 | 12.3 | -      |

Result

Soluble



**SureSelect Post- Capture Primer Mix**

## SECTION 9: Physical and chemical properties

**Relative density** : Not available.

**Relative vapour density** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

#### 9.2.2 Other safety characteristics

**Miscible with water** : Yes.

**Evaporation rate** : Not available.

**Physical/chemical** : Not available.

**properties comments**

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : May react or be incompatible with oxidising materials.

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Conclusion/Summary [Product]** : Not available.

#### Acute toxicity estimates

N/A

#### Skin corrosion/irritation

**Conclusion/Summary [Product]** : Not available.

#### Serious eye damage/eye irritation

**Conclusion/Summary [Product]** : Not available.

#### Respiratory corrosion/irritation

**Conclusion/Summary [Product]** : Not available.

## SECTION 11: Toxicological information

### Respiratory or skin sensitization

#### Skin

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory

**Conclusion/Summary** : Not available.  
**[Product]**

### Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**SECTION 11: Toxicological information****Potential chronic health effects**

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| <b>Conclusion/Summary</b><br><b>[Product]</b> | : Not available.                                    |
| <b>General</b>                                | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>                        | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>                           | : No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b>                  | : No known significant effects or critical hazards. |

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

|                                               |                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conclusion/Summary</b><br><b>[Product]</b> | : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008. |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 12: Ecological information****12.1 Toxicity**

|                                               |                  |
|-----------------------------------------------|------------------|
| <b>Conclusion/Summary</b><br><b>[Product]</b> | : Not available. |
|-----------------------------------------------|------------------|

**12.2 Persistence and degradability**

Not available.

|                                               |                  |
|-----------------------------------------------|------------------|
| <b>Conclusion/Summary</b><br><b>[Product]</b> | : Not available. |
|-----------------------------------------------|------------------|

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil****Soil/water partition coefficient**

Not available.

**Results of PMT and vPvM assessment**

This mixture does not contain any substances that are assessed to be a PMT or a vPvM.

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| <b>Mobility</b>           | : Not available.                                                            |
| <b>Conclusion/Summary</b> | : The product does not meet the criteria to be considered as a PMT or vPvM. |

**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

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

**Regulation (EC) No. 1272/2008 [CLP]**

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

|                                                                                   |                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Conclusion/Summary</b><br><b>Regulation (EC) No.</b><br><b>1272/2008 [CLP]</b> | : The product does not meet the criteria to be considered as a PBT or vPvB. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

**12.6 Endocrine disrupting properties**

|                                               |                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conclusion/Summary</b><br><b>[Product]</b> | : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008. |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**12.7 Other adverse effects**

No known significant effects or critical hazards.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

- Methods of disposal** :  Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Packaging**

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

|                                        | <b>ADR/RID</b> | <b>IMDG</b>    | <b>IATA</b>    |
|----------------------------------------|----------------|----------------|----------------|
| <b>14.1 UN number or ID number</b>     | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            |

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Transport in bulk according to IMO instruments** : Not available.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV****Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

None of the components are listed / The components are not impacted by a restriction

SECTION 15: Regulatory information

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia : All components are listed or exempted.
- Canada : Not determined.
- China : Not determined.
- Eurasian Economic Union : Russian Federation inventory: Not determined.
- Japan : Japan inventory (CSCL): Not determined.  
Japan inventory (ISHL): All components are listed or exempted.
- New Zealand : All components are listed or exempted.
- Philippines : Not determined.
- Republic of Korea : All components are listed or exempted.
- Taiwan : Not determined.
- Thailand : Not determined.
- Turkey : Not determined.
- United States : All components are active or exempted.
- Viet Nam : Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

- : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 23/10/2025

Date of previous issue : 31/01/2025

Version : 1.2

Notice to reader

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

# SAFETY DATA SHEET

Herculase II Fusion DNA Polymerase

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

### 1.1 Product identifier

**Product name** : Herculase II Fusion DNA Polymerase  
**Part no.** : 5190-7742

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.016 ml (32 reactions)  
**Uses advised against** : Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : Not applicable.

**Herculase II Fusion DNA Polymerase****SECTION 2: Hazards identification**

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

**Special packaging requirements**

**Tactile warning of danger** : Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers                                       | %         | Classification                                                                                     | Specific Conc. Limits, M-factors and ATEs | Type |
|-------------------------|---------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------|-------------------------------------------|------|
| glycerol                | REACH #: Annex V<br>EC: 200-289-5<br>CAS: 56-81-5 | ≥50 - ≤75 | Not classified.<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | -                                         | [1]  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed****Over-exposure signs/symptoms**



**Herculase II Fusion DNA Polymerase**

**SECTION 4: First aid measures**

|                     |                     |
|---------------------|---------------------|
| <b>Eye contact</b>  | : No specific data. |
| <b>Inhalation</b>   | : No specific data. |
| <b>Skin contact</b> | : No specific data. |
| <b>Ingestion</b>    | : No specific data. |

**4.3 Indication of any immediate medical attention and special treatment needed**

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : No specific treatment.                                                                                                    |

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | : Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : None known.                                                   |

**5.2 Special hazards arising from the substance or mixture**

|                                              |                                                                                                    |
|----------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Hazards from the substance or mixture</b> | : In a fire or if heated, a pressure increase will occur and the container may burst.              |
| <b>Hazardous combustion products</b>         | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |

**5.3 Advice for firefighters**

|                                                       |                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special precautions for fire-fighters</b>          | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.                                                                                                                                                             |
| <b>Special protective equipment for fire-fighters</b> | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                               |

**6.2 Environmental precautions**

|                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**6.3 Methods and material for containment and cleaning up**

|                                |                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*Herculase II Fusion DNA Polymerase*

**SECTION 6: Accidental release measures**

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).  
**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**7.3 Specific end use(s)**

**Recommendations** : Industrial applications, Professional applications.  
**Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational exposure limits

| Product/ingredient name | Exposure limit values                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| glycerol                | <b>NAOSH (Ireland, 4/2024)</b> Notes: Advisory Occupational Exposure Limit Values (OELVs)<br>OELV 8 hours: 10 mg/m <sup>3</sup> . Form: mist. |

Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Not available.

PNECs

Not available.

**8.2 Exposure controls**

*Herculase II Fusion DNA Polymerase*

**SECTION 8: Exposure controls/personal protection**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state** : Liquid.

**Colour** : Not available.

**Odour** : Not available.

**Odour threshold** : Not available.

**Melting point/freezing point** : Not available.

**Boiling point or initial boiling point and boiling range** : Not available.

**Flammability** : Not applicable.

**Lower and upper explosion limit/flammability limit** : Not available.

|                    |   |                   |               |                 |               |
|--------------------|---|-------------------|---------------|-----------------|---------------|
| <b>Flash point</b> | : | <b>Closed cup</b> |               | <b>Open cup</b> |               |
|                    |   | <b>°C</b>         | <b>Method</b> | <b>°C</b>       | <b>Method</b> |
|                    |   | glycerol          | -             | 177             | -             |

**Auto-ignition temperature** :

Herculase II Fusion DNA Polymerase

SECTION 9: Physical and chemical properties

|                                               |   |                                                                                                                                |                                |               |               |                                |            |               |
|-----------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|---------------|--------------------------------|------------|---------------|
|                                               |   | <b>Ingredient name</b>                                                                                                         | <b>°C</b>                      | <b>Method</b> |               |                                |            |               |
|                                               |   | glycerol                                                                                                                       | 370                            | -             |               |                                |            |               |
| <b>Decomposition temperature</b>              | : | Not available.                                                                                                                 |                                |               |               |                                |            |               |
| <b>pH</b>                                     | : | 8.2                                                                                                                            |                                |               |               |                                |            |               |
| <b>Viscosity</b>                              | : | Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |                                |               |               |                                |            |               |
| <b>Solubility</b>                             | : | <b>Media</b>                                                                                                                   | <b>Result</b>                  |               |               |                                |            |               |
|                                               |   | water                                                                                                                          | Soluble                        |               |               |                                |            |               |
| <b>Partition coefficient: n-octanol/water</b> | : | Not applicable.                                                                                                                |                                |               |               |                                |            |               |
| <b>Vapour pressure</b>                        | : |                                                                                                                                |                                |               |               |                                |            |               |
|                                               |   | <b>Ingredient name</b>                                                                                                         | <b>Vapour Pressure at 20°C</b> |               |               | <b>Vapour pressure at 50°C</b> |            |               |
|                                               |   |                                                                                                                                | <b>mm Hg</b>                   | <b>kPa</b>    | <b>Method</b> | <b>mm Hg</b>                   | <b>kPa</b> | <b>Method</b> |
|                                               |   | water                                                                                                                          | 17.5                           | 2.3           | -             | 92.258                         | 12.3       | -             |
|                                               |   | glycerol                                                                                                                       | 0.000075                       | 0.00001       | -             | 0.0025                         | 0.00033    | -             |
| <b>Relative density</b>                       | : | Not available.                                                                                                                 |                                |               |               |                                |            |               |
| <b>Relative vapour density</b>                | : | Not available.                                                                                                                 |                                |               |               |                                |            |               |
| <b><u>Particle characteristics</u></b>        |   |                                                                                                                                |                                |               |               |                                |            |               |
| <b>Median particle size</b>                   | : | Not applicable.                                                                                                                |                                |               |               |                                |            |               |

9.2 Other information

9.2.1 Information with regard to physical hazard classes

|                             |   |                |
|-----------------------------|---|----------------|
| <b>Explosive properties</b> | : | Not available. |
| <b>Oxidising properties</b> | : | Not available. |

9.2.2 Other safety characteristics

|                                              |   |                |
|----------------------------------------------|---|----------------|
| <b>Miscible with water</b>                   | : | Yes.           |
| <b>Evaporation rate</b>                      | : | Not available. |
| <b>Physical/chemical properties comments</b> | : | Not available. |

SECTION 10: Stability and reactivity

|                                                |   |                                                                                                      |
|------------------------------------------------|---|------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical stability</b>                 | : | The product is stable.                                                                               |
| <b>10.3 Possibility of hazardous reactions</b> | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>10.4 Conditions to avoid</b>                | : | No specific data.                                                                                    |
| <b>10.5 Incompatible materials</b>             | : | May react or be incompatible with oxidising materials.                                               |
| <b>10.6 Hazardous decomposition products</b>   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Acute toxicity estimates

N/A

#### Skin corrosion/irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Serious eye damage/eye irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory corrosion/irritation

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory or skin sensitization

##### Skin

**Conclusion/Summary** : Not available.  
**[Product]**

##### Respiratory

**Conclusion/Summary** : Not available.  
**[Product]**

#### Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

## SECTION 11: Toxicological information

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |                     |
|---------------------|---------------------|
| <b>Eye contact</b>  | : No specific data. |
| <b>Inhalation</b>   | : No specific data. |
| <b>Skin contact</b> | : No specific data. |
| <b>Ingestion</b>    | : No specific data. |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available.                                    |
| <b>General</b>                      | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>              | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>                 | : No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b>        | : No known significant effects or critical hazards. |

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

|                                     |                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conclusion/Summary [Product]</b> | : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008. |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

### 12.2 Persistence and degradability

Not available.

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Not available.

#### Results of PMT and vPvM assessment

Herculase II Fusion DNA Polymerase

SECTION 12: Ecological information

This mixture does not contain any substances that are assessed to be a PMT or a vPvM.

- Mobility : Not available.
- Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

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

Regulation (EC) No. 1272/2008 [CLP]

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

- Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
- Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

- Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

- Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

|                                 | ADR/RID        | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number or ID number     | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              |
|                                 |                |                |                |

Herculase II Fusion DNA Polymerase

SECTION 14: Transport information

|                               |     |     |     |
|-------------------------------|-----|-----|-----|
| 14.5<br>Environmental hazards | No. | No. | No. |
|-------------------------------|-----|-----|-----|

14.6 Special precautions for user : Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.



**Herculase II Fusion DNA Polymerase****SECTION 15: Regulatory information**

|                                |                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                             |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>New Zealand</b>             | : Not determined.                                                                                  |
| <b>Philippines</b>             | : Not determined.                                                                                  |
| <b>Republic of Korea</b>       | : Not determined.                                                                                  |
| <b>Taiwan</b>                  | : All components are listed or exempted.                                                           |
| <b>Thailand</b>                | : Not determined.                                                                                  |
| <b>Turkey</b>                  | : Not determined.                                                                                  |
| <b>United States</b>           | : Not determined.                                                                                  |
| <b>Viet Nam</b>                | : Not determined.                                                                                  |

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| <b>Classification</b> | <b>Justification</b> |
|-----------------------|----------------------|
| Not classified.       |                      |

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications [CLP/GHS]**

*Herculase II Fusion DNA Polymerase*

**SECTION 16: Other information**

Not applicable.

**Date of issue/ Date of revision** : 30/09/2025  
**Date of previous issue** : 31/01/2025  
**Version** : 1.1

**Notice to reader**

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# SAFETY DATA SHEET

5X Herculase II Reaction Buffer with dNTPs

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

### 1.1 Product identifier

**Product name** : 5X Herculase II Reaction Buffer with dNTPs  
**Part no.** : 5191-6680

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

**Identified uses** : Analytical reagent.  
For research use only.  
0.16 ml (16 reactions)  
**Uses advised against** : Not for use in diagnostic procedures.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 10 - 30%  
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%  
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

**Ingredients of unknown ecotoxicity** : Contains 5.3% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

5X Herculase II Reaction Buffer with dNTPs

SECTION 2: Hazards identification

**Supplemental label elements** : Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Tactile warning of danger** : Not applicable.

2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name      | Identifiers                     | %  | Classification                                                                                         | Specific Conc. Limits, M-factors and ATEs | Type |
|------------------------------|---------------------------------|----|--------------------------------------------------------------------------------------------------------|-------------------------------------------|------|
| trometamol                   | EC: 201-064-4<br>CAS: 77-86-1   | ≤3 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                              | -                                         | [1]  |
| Hexadecan- 1-ol, ethoxylated | EC: 500-014-1<br>CAS: 9004-95-9 | ≤3 | Aquatic Chronic 2, H411<br><b>See Section 16 for the full text of the H statements declared above.</b> | -                                         | [1]  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type  
[1] Substance classified with a health or environmental hazard  
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**5X Herculase II Reaction Buffer with dNTPs**

## SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).  
**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

**Recommendations** : Industrial applications, Professional applications.  
**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

| Product/ingredient name | Result |
|-------------------------|--------|
|-------------------------|--------|

**5X Herculase II Reaction Buffer with dNTPs****SECTION 8: Exposure controls/personal protection**

|                             |                                                    |                         |
|-----------------------------|----------------------------------------------------|-------------------------|
| trometamol                  | DNEL - General population - Long term - Oral       | 8.3 mg/kg bw/day        |
|                             | DNEL - General population - Long term - Inhalation | 29 mg/m <sup>3</sup>    |
|                             | DNEL - General population - Long term - Dermal     | 83.3 mg/kg bw/day       |
|                             | DNEL - Workers - Long term - Inhalation            | 117.5 mg/m <sup>3</sup> |
|                             | DNEL - Workers - Long term - Dermal                | 166.7 mg/kg bw/day      |
| Hexadecan-1-ol, ethoxylated | DNEL - General population - Long term - Oral       | 0.75 mg/kg bw/day       |
|                             | DNEL - General population - Long term - Inhalation | 1.96 mg/m <sup>3</sup>  |
|                             | DNEL - Workers - Long term - Inhalation            | 11.1 mg/m <sup>3</sup>  |
|                             | DNEL - General population - Long term - Dermal     | 37.5 mg/kg bw/day       |
|                             | DNEL - Workers - Long term - Dermal                | 105 mg/kg bw/day        |

**PNECs**

Not available.

**8.2 Exposure controls**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**9.1 Information on basic physical and chemical properties****Appearance**

**Physical state** : Liquid.  
**Colour** : Not available.  
**Odour** : Not available.  
**Odour threshold** : Not available.

5X Herculase II Reaction Buffer with dNTPs

SECTION 9: Physical and chemical properties

|                                                          |                                                                                                                                  |       |        |       |         |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|---------|
| Melting point/freezing point                             | : Not available.                                                                                                                 |       |        |       |         |
| Boiling point or initial boiling point and boiling range | : Not available.                                                                                                                 |       |        |       |         |
| Flammability                                             | : Not applicable.                                                                                                                |       |        |       |         |
| Lower and upper explosion limit/flammability limit       | : Not available.                                                                                                                 |       |        |       |         |
| Flash point                                              | : Not available.                                                                                                                 |       |        |       |         |
| Auto-ignition temperature                                | : Not available.                                                                                                                 |       |        |       |         |
| Decomposition temperature                                | : Not available.                                                                                                                 |       |        |       |         |
| pH                                                       | : 10                                                                                                                             |       |        |       |         |
| Viscosity                                                | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |       |        |       |         |
| Solubility                                               | <table><tr><td>Media</td><td>Result</td></tr><tr><td>water</td><td>Soluble</td></tr></table>                                     | Media | Result | water | Soluble |
| Media                                                    | Result                                                                                                                           |       |        |       |         |
| water                                                    | Soluble                                                                                                                          |       |        |       |         |
| Partition coefficient: n-octanol/water                   | : Not applicable.                                                                                                                |       |        |       |         |
| Vapour pressure                                          | : 2.3 kPa (17.5 mm Hg) [Based on solvent.]                                                                                       |       |        |       |         |
| Relative density                                         | : Not available.                                                                                                                 |       |        |       |         |
| Relative vapour density                                  | : Not available.                                                                                                                 |       |        |       |         |
| Particle characteristics                                 |                                                                                                                                  |       |        |       |         |
| Median particle size                                     | : Not applicable.                                                                                                                |       |        |       |         |

9.2 Other information

9.2.1 Information with regard to physical hazard classes

|                                       |                  |
|---------------------------------------|------------------|
| Explosive properties                  | : Not available. |
| Oxidising properties                  | : Not available. |
| 9.2.2 Other safety characteristics    |                  |
| Miscible with water                   | : Yes.           |
| Evaporation rate                      | : Not available. |
| Physical/chemical properties comments | : Not available. |

SECTION 10: Stability and reactivity

|                                         |                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability                 | : The product is stable.                                                                     |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.            |
| 10.4 Conditions to avoid                | : No specific data.                                                                          |
| 10.5 Incompatible materials             | : May react or be incompatible with oxidising materials.                                     |



5X Herculase II Reaction Buffer with dNTPs

SECTION 10: Stability and reactivity

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name             | Result                             |             |
|-------------------------------------|------------------------------------|-------------|
| trometamol                          | Rat - Male, Female - Dermal - LD50 | >5000 mg/kg |
| Hexadecan- 1-ol, ethoxylated        | Rat - Oral - LD50                  | 2500 mg/kg  |
| <b>Conclusion/Summary [Product]</b> | : Not available.                   |             |

Acute toxicity estimates

| Product/ingredient name      | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Hexadecan- 1-ol, ethoxylated | 2500         | N/A            | N/A                      | N/A                         | N/A                                 |

Skin corrosion/irritation

| Product/ingredient name             | Result                            |                                      |
|-------------------------------------|-----------------------------------|--------------------------------------|
| trometamol                          | Rabbit - Skin - Moderate irritant | Amount/concentration applied: 25 %   |
|                                     | Rabbit - Skin - Severe irritant   | Amount/concentration applied: 500 mg |
| <b>Conclusion/Summary [Product]</b> | : Not available.                  |                                      |

Serious eye damage/eye irritation

**Conclusion/Summary [Product]** : Not available.

Respiratory corrosion/irritation

**Conclusion/Summary [Product]** : Not available.

Respiratory or skin sensitization

**Skin Conclusion/Summary [Product]** : Not available.

**Respiratory Conclusion/Summary [Product]** : Not available.

Germ cell mutagenicity

**Conclusion/Summary [Product]** : Not available.

Carcinogenicity

**Conclusion/Summary [Product]** : Not available.

Reproductive toxicity

**SECTION 11: Toxicological information**

**Conclusion/Summary** : Not available.  
**[Product]**

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Not available.  
**[Product]**  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Reproductive toxicity** : No known significant effects or critical hazards.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

**Conclusion/Summary** : The product does not meet the criteria to be considered as having endocrine disrupting  
**[Product]** properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

**SECTION 12: Ecological information****12.1 Toxicity**

| Product/ingredient name      | Result                      |                             |
|------------------------------|-----------------------------|-----------------------------|
| trometamol                   | Acute - EC50 - Fresh water  | >980 mg/l [48 hours]        |
|                              | Acute - NOEC - Fresh water  | 520 mg/l [48 hours]         |
| Hexadecan- l-ol, ethoxylated | Acute - LC50 - Marine water | 330 to 1000 mg/l [48 hours] |

**Conclusion/Summary [Product]** : Not available.

**12.2 Persistence and degradability**

| Product/ingredient name | Result            |                           |                   |
|-------------------------|-------------------|---------------------------|-------------------|
| trometamol              | Aerobic - 30 mg/l | 97.1% [28 days] - Readily | Aerobic - 30 mg/l |

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name      | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| trometamol                   | -                 | -          | Readily          |
| Hexadecan- l-ol, ethoxylated | -                 | -          | Readily          |

**12.3 Bioaccumulative potential**

| Product/ingredient name      | LogP <sub>ow</sub> | BCF | Potential |
|------------------------------|--------------------|-----|-----------|
| Hexadecan- l-ol, ethoxylated | >6.06              | -   | High      |

**12.4 Mobility in soil****Soil/water partition coefficient**

| Product/ingredient name | logK <sub>oc</sub> | K <sub>oc</sub> |
|-------------------------|--------------------|-----------------|
| trometamol              | 0.61               | 4.06623         |

**Results of PMT and vPvM assessment**

| Product/ingredient name      | PMT | P   | M   | T  | vPvM | vP  | vM  |
|------------------------------|-----|-----|-----|----|------|-----|-----|
| trometamol                   | No  | N/A | Yes | No | N/A  | N/A | Yes |
| Hexadecan- l-ol, ethoxylated | No  | N/A | N/A | No | N/A  | N/A | N/A |

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

| Product/ingredient name      | PBT | P   | B   | T  | vPvB | vP  | vB  |
|------------------------------|-----|-----|-----|----|------|-----|-----|
| trometamol                   | No  | N/A | N/A | No | N/A  | N/A | N/A |
| Hexadecan- l-ol, ethoxylated | No  | N/A | N/A | No | N/A  | N/A | N/A |

**Regulation (EC) No. 1272/2008 [CLP]**

| Product/ingredient name      | PBT | P   | B   | T  | vPvB | vP  | vB  |
|------------------------------|-----|-----|-----|----|------|-----|-----|
| trometamol                   | No  | N/A | N/A | No | N/A  | N/A | N/A |
| Hexadecan- l-ol, ethoxylated | No  | N/A | N/A | No | N/A  | N/A | N/A |

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PBT or vPvB.

**Regulation (EC) No. 1272/2008 [CLP]**

**12.6 Endocrine disrupting properties**

5X Herculase II Reaction Buffer with dNTPs

SECTION 12: Ecological information

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
- Packaging
- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

|                                 | ADR/RID        | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number or ID number     | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              |
| 14.5 Environmental hazards      | No.            | No.            | No.            |

**14.6 Special precautions for user** : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

|                         |                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Australia               | : Not determined.                                                                                                                  |
| Canada                  | : All components are listed or exempted.                                                                                           |
| China                   | : All components are listed or exempted.                                                                                           |
| Eurasian Economic Union | : Russian Federation inventory: All components are listed or exempted.                                                             |
| Japan                   | : Japan inventory (CSCL): All components are listed or exempted.<br>Japan inventory (ISHL): All components are listed or exempted. |
| New Zealand             | : All components are listed or exempted.                                                                                           |
| Philippines             | : All components are listed or exempted.                                                                                           |
| Republic of Korea       | : Not determined.                                                                                                                  |
| Taiwan                  | : All components are listed or exempted.                                                                                           |
| Thailand                | : Not determined.                                                                                                                  |
| Turkey                  | : Not determined.                                                                                                                  |
| United States           | : All components are active or exempted.                                                                                           |
| Viet Nam                | : All components are listed or exempted.                                                                                           |

5X Herculase II Reaction Buffer with dNTPs

SECTION 15: Regulatory information

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
B = Bioaccumulative  
BCF = Bioconcentration Factor  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
M = Mobile  
N/A = Not available  
P = Persistent  
PBT = Persistent, Bioaccumulative and Toxic  
PMT = Persistent, Mobile and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SGG = Segregation Group  
T = Toxic  
vB = Very Bioaccumulative  
vM = Very Mobile  
vP = Very Persistent  
vPvB = Very Persistent and Very Bioaccumulative  
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

Full text of abbreviated H statements

|                      |                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| H315<br>H319<br>H411 | Causes skin irritation.<br>Causes serious eye irritation.<br>Toxic to aquatic life with long lasting effects. |
|----------------------|---------------------------------------------------------------------------------------------------------------|

Full text of classifications [CLP/GHS]

|                                                    |                                                                                                                                             |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Chronic 2<br>Eye Irrit. 2<br>Skin Irrit. 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

Date of issue/ Date of revision : 30/09/2025

Date of previous issue : No previous validation

Version : 1

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