# SAFETY DATA SHEET



SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

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

1.1 Product identifier

Product name : SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

Part no. (chemical kit) : 5500-0149

Part no. : 2X Priming Buffer 5191-6842

First Strand Master Mix 5191-6843 Second Strand Enzyme 5190-7764

Mix

Second Strand Oligo Mix 5190-7765

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

Identified uses : Analytical reagent.

For research use only.

ZX Priming Buffer1.3 ml (96 reactions)First Strand Master Mix0.816 ml (96 reactions)Second Strand Enzyme Mix2.8 ml (96 reactions)Second Strand Oligo Mix0.6 ml (96 reactions)

**Uses advised against**: Not for use in diagnostic procedures.

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

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds\_author@agilent.com

responsible for this SDS

### 1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : 2X Priming Buffer Mixture First Strand Master Mix Mixture

Second Strand Enzyme Mixture

Mix

Second Strand Oligo Mix Mixture

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

Not classified.

Priming Buffer
The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

First Strand Master Mix

The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Second Strand Enzyme Mix

The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Second Strand Oligo Mix

The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

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### **SECTION 2: Hazards identification**

Ingredients of unknown toxicity

: 2X Priming Buffer

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

First Strand Master Mix Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

Second Strand Enzyme Percentage of the mixture consisting of ingredient(s) of Mix

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

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 : 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme No signal word. No signal word. No signal word.

Second Strand Oligo Mix No signal word.

**Hazard statements** 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Second Strand Oligo Mix No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : 2X Priming Buffer

> First Strand Master Mix Second Strand Enzyme

Not applicable. Not applicable. Not applicable.

Mix

Second Strand Oligo Mix Not applicable.

Not applicable.

Response 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme

Not applicable. Not applicable.

Second Strand Oligo Mix Not applicable.

: 2X Priming Buffer **Storage** 

First Strand Master Mix Second Strand Enzyme Not applicable. Not applicable. Not applicable.

Mix

Second Strand Oligo Mix Not applicable. **Disposal** 

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not applicable. Not applicable. Not applicable.

Second Strand Oligo Mix

Not applicable.

Supplemental label

elements

2X Priming Buffer

Not applicable.

First Strand Master Mix Second Strand Enzyme Safety data sheet available on request. Safety data sheet available on request.

Second Strand Oligo Mix Not applicable.

**Annex XVII - Restrictions** on the manufacture,

placing on the market and use of certain dangerous substances,

mixtures and articles

2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not applicable. Not applicable. Not applicable.

Mix

Second Strand Oligo Mix Not applicable.

Special packaging requirements

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### **SECTION 2: Hazards identification**

Containers to be fitted with child-resistant fastenings

**Tactile warning of** 

: ZX Priming Buffer First Strand Master Mix Second Strand Enzyme Not applicable. Not applicable. Not applicable.

Mix

Not applicable.

First Strand Master Mix Second Strand Enzyme

Mix Not applicable. yme Not applicable.

Mix

Second Strand Oligo Mix Not applicable.

#### 2.3 Other hazards

danger

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: 2X Priming Buffer

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

First Strand Master Mix

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Second Strand Enzyme

Mix

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Second Strand Oligo Mix 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

2X Priming Buffer First Strand Master Mix Second Strand Enzyme

None known. None known. None known.

Mix

Second Strand Oligo Mix None known.

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

3.1 Substances

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix Mixture Mixture Mixture Mixture

Product/ingredient name	Identifiers	%	Classification	Type
First Strand Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
Second Strand Enzyme Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

First Strand Master Mix Second Strand Enzyme Mix [1] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

[1] Gubianice with a workplace expose

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

### SECTION 4: First aid measures

	<b>B</b> 1 44		
4.1	Description	of first aid	measures

Eye contact

Inhalation

: 2X Priming Buffer

First Strand Master Mix

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. 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. Immediately flush eyes with plenty of water, occasionally

Second Strand Enzyme Mix lifting the upper and lower eyelids. Check for and remove

any contact lenses. Get medical attention if irritation occurs. Second Strand Oligo Mix 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.

: 2X Priming Buffer 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.

First Strand Master Mix Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

occur.

Second Strand Enzyme Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

Second Strand Oligo Mix Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

**Skin contact** : 2X Priming Buffer Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

First Strand Master Mix Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Second Strand Enzyme

Mix

Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove Second Strand Oligo Mix

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : 2X Priming Buffer 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.

First Strand Master Mix 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.

Second Strand Enzyme

Mix

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.

Second Strand Oligo Mix 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.

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### **SECTION 4: First aid measures**

**Protection of first-aiders** : 2X Priming Buffer No action shall be taken involving any personal risk or without

suitable training.

First Strand Master Mix No action shall be taken involving any personal risk or without

suitable training.

Second Strand Enzyme

No action shall be taken involving any personal risk or without

suitable training.

Second Strand Oligo Mix 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

Skin contact

**Eye contact** : 2X Priming Buffer No specific data.

First Strand Master Mix No specific data. No specific data. Second Strand Enzyme

Mix

Second Strand Oligo Mix No specific data.

Inhalation : 2X Priming Buffer No specific data. First Strand Master Mix No specific data.

Second Strand Enzyme No specific data.

Second Strand Oligo Mix No specific data.

2X Priming Buffer No specific data. First Strand Master Mix No specific data. Second Strand Enzyme No specific data.

Second Strand Oligo Mix No specific data.

: 2X Priming Buffer Ingestion No specific data. First Strand Master Mix No specific data.

Second Strand Enzyme No specific data.

Mix

Second Strand Oligo Mix No specific data.

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

Notes to physician : 2X Priming Buffer 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.

First Strand Master Mix Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

Second Strand Enzyme

immediately if large quantities have been ingested or inhaled. Second Strand Oligo Mix

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

: 2X Priming Buffer **Specific treatments** No specific treatment. First Strand Master Mix No specific treatment.

Second Strand Enzyme

No specific treatment.

Second Strand Oligo Mix No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing : 2X Priming Buffer media

First Strand Master Mix Second Strand Enzyme

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Second Strand Oligo Mix Use an extinguishing agent suitable for the surrounding fire.

# Unsuitable extinguishing

media

2X Priming Buffer None known. First Strand Master Mix None known. Second Strand Enzyme None known.

Mix

Second Strand Oligo Mix None known.

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# **SECTION 5: Firefighting measures**

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

Hazards from the substance or mixture : 2X Priming Buffer In a fire or if heated, a pressure increase will occur and the

container may burst.

First Strand Master Mix In a fire or if heated, a pressure increase will occur and the

container may burst.

Second Strand Enzyme

In a fire or if heated, a pressure increase will occur and the

container may burst.

Mix Second Strand Oligo Mix In a fire or if heated, a pressure increase will occur and the

container may burst.

**Hazardous combustion** products

: 2X Priming Buffer

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

First Strand Master Mix Decomposition products may include the following materials:

> carbon dioxide carbon monoxide

Second Strand Enzyme Mix

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds metal oxide/oxides

Second Strand Oligo Mix No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

fighters

: 2X Priming Buffer 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. Promptly isolate the scene by removing all persons from the

First Strand Master Mix

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

Second Strand Enzyme Mix

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Second Strand Oligo Mix

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-

: 2X Priming Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

First Strand Master Mix Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Second Strand Enzyme

Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Second Strand Oligo Mix Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

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### **SECTION 6: Accidental release measures**

For non-emergency personnel

: 2X Priming Buffer

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.

First Strand Master Mix 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.

Second Strand Enzyme

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.

Second Strand Oligo Mix

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

: 2X Priming Buffer

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".

First Strand Master Mix

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".

Second Strand Enzyme

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".

Second Strand Oligo Mix 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

: 2X Priming Buffer

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

First Strand Master Mix

(sewers, waterways, soil or air). 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).

Second Strand Enzyme

Mix

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).

Second Strand Oligo Mix

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 : 2X Priming Buffer 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.

Stop leak if without risk. Move containers from spill area. First Strand Master Mix

Dilute with water and mop up if water-soluble. Alternatively,

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### SECTION 6: Accidental release measures

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.

Second Strand Enzyme

Mix

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.

Second Strand Oligo Mix

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** 

: 2X Priming Buffer Put on appropriate personal protective equipment (see

Section 8).

First Strand Master Mix Put on appropriate personal protective equipment (see

Section 8).

Second Strand Enzyme

Put on appropriate personal protective equipment (see Section 8).

Second Strand Oligo Mix

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : 2X Priming Buffer

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.

First Strand Master Mix 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.

Second Strand Enzyme

Mix

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.

Second Strand Oligo Mix

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

: 2X Priming Buffer **Storage** 

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated 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

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# **SECTION 7: Handling and storage**

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Store in accordance with local regulations. Store in original First Strand Master Mix

container protected from direct sunlight in a dry, cool and wellventilated 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.

Second Strand Enzyme

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated 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.

Second Strand Oligo Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated 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 : 2X Priming Buffer

> First Strand Master Mix Second Strand Enzyme

Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications. Professional applications.

Second Strand Oligo Mix

Industrial applications, Professional applications.

**Industrial sector specific** 

solutions

: 2X Priming Buffer

Not available. First Strand Master Mix Not available. Second Strand Enzyme

Not available.

Second Strand Oligo Mix Not available.

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

### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
First Strand Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Second Strand Enzyme Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist

### **Biological exposure indices**

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

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
First Strand Master Mix					
Glycerol	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	56 mg/m³	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic
Second Strand Enzyme Mix					
Glycerol	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	56 mg/m³	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available

### 8.2 Exposure controls

Appropriate engineering controls

: Sood 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 sideshields.

### **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** 

ersonal 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** 

: Sased 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.

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# **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 : 2X Priming Buffer Liquid. First Strand Master Mix Liquid.

Second Strand Enzyme Liquid.

Mix

Second Strand Oligo Mix Liquid.

Colour : 2X Priming Buffer Not available. First Strand Master Mix Not available.

Second Strand Enzyme

Mix

Second Strand Oligo Mix Not available.

Not available.

Odour : 2X Priming Buffer Not available.

First Strand Master Mix Not available. Second Strand Enzyme Not available.

Mix

Second Strand Oligo Mix Not available.

2X Priming Buffer Not available. First Strand Master Mix Second Strand Enzyme Not available.

Mix

Second Strand Oligo Mix Not available.

Melting point/freezing

**Odour threshold** 

point

2X Priming Buffer 0°C

First Strand Master Mix Not available. Second Strand Enzyme Not available.

Mix

Second Strand Oligo Mix Not available.

Initial boiling point and

boiling range

**Flammability** 

2X Priming Buffer 100°C
First Strand Master Mix Not available.

Second Strand Enzyme Not available.

MIX

Second Strand Oligo Mix Not available.

2X Priming Buffer Not applicable.
 First Strand Master Mix Not applicable.
 Second Strand Enzyme Not applicable.

Mix

Second Strand Oligo Mix Not applicable.

Upper/lower flammability or explosive limits

2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not available. Not available. Not available.

Mix

Second Strand Oligo Mix Not available.

Flash point

	C	losed cup		Open cup
Ingredient name	°C	°C Method		Method
First Strand Master Mix				
Glycerol	-	-	177	-
Second Strand Enzyme Mix				
Glycerol	-	_	177	_

Auto-ignition temperature

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# **SECTION 9: Physical and chemical properties**

Ingredient name	°C	Method
First Strand Master Mix		
Glycerol	370	-
Second Strand Enzyme Mix		
Glycerol	370	-

**Decomposition** temperature

pH

: 2X Priming Buffer Not available. First Strand Master Mix Second Strand Enzyme Not available.

econd Strand Enzyme - Not avai lix

IVIIX

Second Strand Oligo Mix Not available.

: 2X Priming Buffer 8.3 First Strand Master Mix 8.3 Second Strand Enzyme 8.3

Mix

Second Strand Oligo Mix 7.5

Viscosity : 2X Priming Buffer Not available.

First Strand Master Mix Not available. Second Strand Enzyme Not available.

Mix

Second Strand Oligo Mix Not available.

Solubility(ies)

Media	Result
2X Priming Buffer	
water	Soluble
First Strand Master Mix	
water	Soluble
Second Strand Enzyme Mix	
water	Soluble
Second Strand Oligo Mix	
water	Soluble

Partition coefficient: n-octanol/water

: ZX Priming Buffer Not applicable.
First Strand Master Mix Not applicable.
Second Strand Enzyme Not applicable.
Mix

Second Strand Oligo Mix Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vap	our press	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2X Priming Buffer						
water	17.5	2.3	-	92.258	12.3	-
2-Amino-2- (hydroxymethyl) propane-1,3-diol hydrochloride	0	0	-	0.000007501	0.000001	-
First Strand Master Mix						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Second Strand						

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# SECTION 9: Physical and chemical properties

E	nzyme Mix						
W	vater	17.5	2.3	-	92.258	12.3	-
C	Slycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Second Strand Dligo Mix						
W	vater	17.5	2.3	-	92.258	12.3	-

**Evaporation rate** 

**Relative density** 

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not available. Not available. Not available.

Second Strand Oligo Mix Not available. 2X Priming Buffer

Not available. Not available.

Second Strand Enzyme

Not available.

Mix

Second Strand Oligo Mix

First Strand Master Mix

Not available. Not available.

Vapour density 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme Not available. Not available.

Mix

Second Strand Oligo Mix

Not available.

**Explosive properties** 

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not available. Not available. Not available.

Second Strand Oligo Mix Not available.

**Oxidising properties** 

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not available. Not available. Not available.

Second Strand Oligo Mix Not available.

**Particle characteristics** 

Median particle size

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Not applicable. Not applicable. Not applicable.

Second Strand Oligo Mix Not applicable.

### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

: 2X Priming Buffer

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

First Strand Master Mix

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

Second Strand Enzyme

No specific test data related to reactivity available for this

product or its ingredients.

Second Strand Oligo Mix

No specific test data related to reactivity available for this

product or its ingredients.

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## SECTION 10: Stability and reactivity

10.2 Chemical stability

2X Priming Buffer First Strand Master Mix

The product is stable. Second Strand Enzyme The product is stable.

Second Strand Oligo Mix The product is stable.

10.3 Possibility of hazardous reactions : 2X Priming Buffer

Under normal conditions of storage and use, hazardous

reactions will not occur.

The product is stable.

First Strand Master Mix

Under normal conditions of storage and use, hazardous

Under normal conditions of storage and use, hazardous

reactions will not occur.

Second Strand Enzyme

Mix

reactions will not occur.

Second Strand Oligo Mix

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme No specific data. No specific data. No specific data.

Second Strand Oligo Mix No specific data.

10.5 Incompatible materials

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Second Strand Oligo Mix May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : 2X Priming Buffer

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

First Strand Master Mix Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Second Strand Enzyme

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Second Strand Oligo Mix

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	Species	Dose	Exposure
First Strand Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Second Strand Enzyme Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

### **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)
First Strand Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Second Strand Enzyme Mix Glycerol	12600	N/A	N/A	N/A	N/A

**Irritation/Corrosion** 

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
First Strand Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Second Strand Enzyme Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

**Conclusion/Summary** 

: Not available.

**Sensitiser** 

**Conclusion/Summary** 

: Not available.

**Mutagenicity** 

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.

Reproductive toxicity

Conclusion/Summary Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Eye contact

Information on likely routes of exposure

: 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme

Second Strand Oligo Mix

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available.

Potential acute health effects

Inhalation : 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Second Strand Oligo Mix Ingestion

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Skin contact** 

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme

Second Strand Oligo Mix No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

Second Strand Oligo Mix

No known significant effects or critical hazards. No known significant effects or critical hazards.

2X Priming Buffer First Strand Master Mix Second Strand Enzyme

No known significant effects or critical hazards. No known significant effects or critical hazards.

Mix

Second Strand Oligo Mix No known significant effects or critical hazards.

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# SECTION 11: Toxicological information

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

Inhalation : ZX Priming Buffer No specific data.

First Strand Master Mix No specific data. Second Strand Enzyme No specific data.

Mix

Second Strand Oligo Mix No specific data.

Ingestion : X Priming Buffer No specific data.

Priming Buffer No specific data.

First Strand Master Mix
Second Strand Enzyme No specific data.

No specific data.

Mix

Second Strand Oligo Mix No specific data.

Skin contact : 2X Priming Buffer No specific data.

First Strand Master Mix
Second Strand Enzyme
No specific data.
No specific data.

Mix

Second Strand Oligo Mix No specific data.

**Eye contact** : ZX Priming Buffer No specific data. First Strand Master Mix No specific data.

Second Strand Enzyme No specific data.

Mix

Second Strand Oligo Mix 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.

Second Strand Enzyme
No known significant effects or critical hazards.

IVIIX

Second Strand Oligo Mix No known significant effects or critical hazards.

Carcinogenicity : X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix
Second Strand Enzyme
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Mix

Second Strand Oligo Mix No known significant effects or critical hazards.

Second Strand Enzyme

No known significant effects or critical hazards.

Mix

Second Strand Oligo Mix No known significant effects or critical hazards.

Reproductive toxicity : 2X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix No known significant effects or critical hazards. Second Strand Enzyme No known significant effects or critical hazards.

Mix

Second Strand Oligo Mix No known significant effects or critical hazards.

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# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
First Strand Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Second Strand Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
First Strand Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Second Strand Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
First Strand Master Mix Glycerol	-1.76	-	Low
Second Strand Enzyme Mix Glycerol	-1.76	-	Low

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects**: No known significant effects or critical hazards.

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# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. 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. 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	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.

### **Additional information**

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 UK (GB)/REACH

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

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### **SECTION 15: Regulatory information**

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

### **Persistent Organic Pollutants**

Not listed.

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

No listed substance

Label : ZX Priming Buffer Not applicable.
First Strand Master Mix Not applicable.

Second Strand Enzyme Mix Not applicable. Second Strand Oligo Mix Not applicable.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

**EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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

assessment required.

### **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**

United States : Not determined.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

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

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

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### **SECTION 16: Other information**

RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

Not applicable.

### **Full text of classifications**

Not applicable.

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### **Notice to reader**

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