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

: 5500-0149 Part no. (chemical kit)

Part no. : 2X Priming Buffer 5191-6842

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

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.

2X Priming Buffer 1.3 ml (96 reactions) First Strand Master Mix 0.816 ml (96 reactions) 2.8 ml (96 reactions) Second Strand Enzyme Mix 0.6 ml (96 reactions) Second Strand Oligo Mix

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 : 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.

2X Priming Buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) First Strand Master Mix

1272/2008 as amended.

Second Strand Enzyme Mix The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) Second Strand Oligo Mix

1272/2008 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%

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

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 No signal word.

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

Second Strand Oligo Mix No signal word.

Hazard statements 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.

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

Precautionary statements

Storage

Prevention : 2X Priming Buffer Not applicable.

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

Second Strand Oligo Mix Not applicable.

2X Priming Buffer Response Not applicable.

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

Second Strand Oligo Mix

Not applicable. : 2X Priming Buffer Not applicable.

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

Mix

Second Strand Oligo Mix Not applicable.

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

Second Strand Enzyme Not applicable.

Mix

Not applicable. Second Strand Oligo Mix

Supplemental label 2X Priming Buffer Not applicable. elements First Strand Master Mix Not applicable.

Second Strand Enzyme Not applicable.

Mix Second Strand Oligo Mix Not applicable.

Annex XVII - Restrictions 2X Priming Buffer Not applicable. on the manufacture, First Strand Master Mix Not applicable. Not applicable.

Second Strand Enzyme placing on the market and use of certain

Second Strand Oligo Mix Not applicable. dangerous substances,

Special packaging requirements

mixtures and articles

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SECTION 2: Hazards identification

Tactile warning of danger

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

Mix

Second Strand Oligo Mix Not applicable.

2.3 Other hazards

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 Mixture
First Strand Master Mix Mixture
Second Strand Enzyme Mix Mixture
Second Strand Oligo Mix Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
First Strand Master Mix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
Second Strand Enzyme Mix					
glycerol	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.

<u>Type</u>

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

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

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SECTION 4: First aid measures

4.1	Descri	ption	of	first	aid	measures
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Inhalation

Eye contact Immediately flush eyes with plenty of water, occasionally : 2X Priming Buffer lifting the upper and lower eyelids. Check for and remove

> any contact lenses. Get medical attention if irritation occurs. 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 Second Strand Enzyme 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

Mix

Mix

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

comfortable for breathing. Get medical attention if

symptoms occur.

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

comfortable for breathing. Get medical attention if

symptoms occur.

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

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

symptoms occur.

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

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

Mix

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

Potential acute health effects

Eye contact: 2X 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.

Inhalation : 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.

Skin contact : 2X 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.

Ingestion : 2X 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.

Over-exposure signs/symptoms

Eye 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.

Inhalation : 2X 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.

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.

2X Priming Buffer No specific data.

Ingestion : 2X 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.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

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.

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

Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme

Second Strand Enzyme

Second Strand Oligo Mix

No specific treatment.

No specific treatment.

No specific treatment.

Mix

Second Strand Oligo Mix No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: 2X Priming Buffer 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.

Mix

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

Unsuitable extinguishing media

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

Mix

Second Strand Oligo Mix None known.

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

Miv

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

container may burst.

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

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SECTION 5: Firefighting measures

Special precautions for fire-fighters

: 2X Priming Buffer

First Strand Master 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. 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.

Second Strand Enzyme

Mix

taken involving any personal risk or without suitable training.

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. 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-fighters

: 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. 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.

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. 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.

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. 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.

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. 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

: 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

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 Oligo Mix No action shall

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.

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SECTION 6: Accidental release measures

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

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 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

(sewers, waterways, soil or air).

First Strand Master 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 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, 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.

Stop leak if without risk. Move containers from spill area. Second Strand Oligo Mix

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.

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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

First Strand Master Mix

Second Strand Enzyme

Second Strand Oligo Mix

Mix

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. Eating, drinking and smoking should be prohibited in areas

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

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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.

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

Mix

Storage : 2X Priming Buffer

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.

First Strand Master Mix

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.

Second Strand Enzyme

Mix

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

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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.

Second Strand Oligo Mix 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 : 2X Priming Buffer Industrial applications, Professional applications.

First Strand Master Mix Industrial applications, Professional applications. Industrial applications, Professional applications. Second Strand Enzyme

Second Strand Oligo Mix Industrial applications, Professional applications.

Industrial sector specific

solutions

: 2X Priming Buffer First Strand Master Mix

Second Strand Enzyme

Second Strand Oligo Mix Not available.

Not available.

Not available.

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	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Second Strand Enzyme Mix	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 10 mg/m³ 8 hours. 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

No DNELs/DMELs available.

PNECs

No PNECs available

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SECTION 8: Exposure controls/personal protection

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 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

: 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

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

Second Strand Enzyme

Liquid.

Second Strand Oligo Mix

Liquid. Not available.

Colour : 2X Priming Buffer First Strand Master Mix

Not available. Not available.

Second Strand Enzyme

Mix Second Strand Oligo Mix Not available.

Odour

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

Not available. Second Strand Oligo Mix

Odour threshold

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

Second Strand Oligo Mix Not available.

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SECTION 9: Physical and chemical properties

Melting point/freezing

point

2X Priming Buffer ი°С

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

Mix

Not available. Second Strand Oligo Mix

Initial boiling point and

boiling range

Flammability

2X Priming Buffer 100°C

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

Second Strand Oligo Mix Not available.

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

Mix

Second Strand Oligo Mix Not applicable.

Upper/lower flammability : 2X Priming Buffer or explosive limits

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

Mix

Second Strand Oligo Mix Not available.

Flash point

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

Auto-ignition temperature

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

Decomposition temperature

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

Mix

Second Strand Oligo Mix Not available.

pН

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

Viscosity

Second Strand Oligo Mix 7.5 2X Priming Buffer Not available. First Strand Master Mix Not available. Second Strand Enzyme Not available.

Second Strand Oligo Mix Not available.

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SECTION 9: Physical and chemical properties

Solubility(ies)

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

Partition coefficient: noctanol/water

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

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure 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 Enzyme Mix						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Second Strand Oligo Mix						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate

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

Relative density

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

Second Strand Oligo Mix Not available.

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SECTION 9: Physical and chemical properties

Vapour density 2X Priming Buffer Not available. First Strand Master Mix Not available.

> Second Strand Enzyme Mix

Second Strand Oligo Mix

Not available. Not available.

Not available.

Explosive properties : 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme 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.

Mix

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

: 2X Priming Buffer 10.1 Reactivity 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

Mix

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.

10.2 Chemical stability : 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme The product is stable. The product is stable. The product is stable.

Mix

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.

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

> reactions will not occur. Under normal conditions of storage and use, hazardous

Second Strand Enzyme

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.

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SECTION 10: Stability and reactivity

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.

Mix

Second Strand Oligo Mix

Second Strand Enzyme

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.

Under normal conditions of storage and use, hazardous

decomposition products should not be produced. 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

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

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.

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

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.

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SECTION 11: Toxicological information

Ingestion : 2X 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.

Skin contact : 2X 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.

Eye contact : 2X 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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : 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.

Ingestion : 2X Priming Buffer No specific data.

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

IVIIX

Second Strand Oligo Mix No specific data.

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

Second Strand Enzyme No specific data.

No specific data.

Mix

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.

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

Eye contact

: 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.

General : 2X 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.

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SECTION 11: Toxicological information

Carcinogenicity : 2X 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.

Mutagenicity: 2X 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.

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.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

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 Endocrine disrupting properties

Not available.

12.7 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 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.

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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

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SECTION 15: Regulatory information

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

No listed substance

Label : 2X Priming Buffer Not applicable.

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

Other EU regulations

Ozone depleting substances (1005/2009/EU)

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 Japan

: Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

 $\label{eq:clp} {\sf CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. }$

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

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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.

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