

# SAFETY DATA SHEET



SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917

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

**1.1 Product identifier**

<b>Product name</b>	: SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917	
<b>Part no. (chemical kit)</b>	: 400917	
<b>Part no.</b>	: SideStep Lysis & Stabilization Buffer	400900-21
	: SideStep II Neutralization Buffer	400916-53
	: SideStep II DNase I	400916-51
	: SideStep II DNase Digestion Buffer 10X	400916-52
	: QPCR Normalization Primer 1	400916-54
	: QPCR Normalization Primer 2	400916-55
	: QPCR Normalization Primer 3	400916-56
	: 2X Brilliant II QRT-PCR Master Mix	600809-51
	: Reference Dye	600530-53
	: RT/RNase Block Enzyme Mixture	600809-52

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

<b>Identified uses</b>	: <input checked="" type="checkbox"/> Analytical reagent.	
	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	10 ml
	: SideStep II Neutralization Buffer	0.1 ml
	: SideStep II DNase I	0.05 ml (500 U 10 U/μl)
	: SideStep II DNase Digestion Buffer 10X	0.1 ml
	: QPCR Normalization Primer 1	0.0125 ml (45 μM 12.5 μl)
	: QPCR Normalization Primer 2	0.0125 ml (30 μM 12.5 μl)
	: QPCR Normalization Primer 3	0.0125 ml (45 μM 12.5 μl)
	: 2X Brilliant II QRT-PCR Master Mix	2 x 2.5 ml
	: Reference Dye	0.1 ml (100 μl 1 mM)
	: RT/RNase Block Enzyme Mixture	0.4 ml

**Uses advised against** : None known.

**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  
 0800 603 1000

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

**1.4 Emergency telephone number**

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	SideStep Lysis & Stabilization Buffer	Mixture
		SideStep II Neutralization Buffer	Mixture
		SideStep II DNase I	Mixture
		SideStep II DNase	Mixture
		Digestion Buffer 10X	
		QPCR Normalization Primer 1	Mixture
		QPCR Normalization Primer 2	Mixture
		QPCR Normalization Primer 3	Mixture
		2X Brilliant II QRT-PCR Master Mix	Mixture
		Reference Dye	Mixture
		RT/RNase Block	Mixture
		Enzyme Mixture	

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

#### SideStep Lysis & Stabilization Buffer


H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 3

<b>Ingredients of unknown toxicity</b>	:	SideStep Lysis & Stabilization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		SideStep II DNase I	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		SideStep II DNase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Digestion Buffer 10X	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		2X Brilliant II QRT-PCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		RT/RNase Block Enzyme Mixture	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
<b>Ingredients of unknown ecotoxicity</b>	:	SideStep II DNase	Contains 1.2% of components with unknown hazards to the aquatic environment
		Digestion Buffer 10X	

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

<b>Hazard pictograms</b>	:	SideStep Lysis & Stabilization Buffer	
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<b>Signal word</b>	:	SideStep Lysis & Stabilization Buffer	Warning
		SideStep II Neutralization Buffer	No signal word.
		SideStep II DNase I	No signal word.
		SideStep II DNase	No signal word.
		Digestion Buffer 10X	
		QPCR Normalization	No signal word.

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	Primer 1	
	QPCR Normalization	No signal word.
	Primer 2	
	QPCR Normalization	No signal word.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No signal word.
	Reference Dye	No signal word.
	RT/RNase Block	No signal word.
	Enzyme Mixture	
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	H319 - Causes serious eye irritation.  H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards.
	SideStep II Neutralization Buffer	
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase Digestion Buffer 10X	No known significant effects or critical hazards.
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Precautionary statements</b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	P280 - Wear eye or face protection.  P273 - Avoid release to the environment.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase Digestion Buffer 10X	Not applicable.
	QPCR Normalization	Not applicable.
	Primer 1	
	QPCR Normalization	Not applicable.
	Primer 2	
	QPCR Normalization	Not applicable.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	RT/RNase Block	Not applicable.
	Enzyme Mixture	
<b>Response</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase Digestion Buffer 10X	Not applicable.
	QPCR Normalization	Not applicable.
	Primer 1	
	QPCR Normalization	Not applicable.
	Primer 2	

**SECTION 2: Hazards identification**

	QPCR Normalization Primer 3	Not applicable.
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	RT/RNase Block	Not applicable.
	Enzyme Mixture	
<b>Storage</b>	: SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not applicable.
	QPCR Normalization Primer 2	Not applicable.
	QPCR Normalization Primer 3	Not applicable.
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	RT/RNase Block	Not applicable.
	Enzyme Mixture	
<b>Disposal</b>	: SideStep Lysis & Stabilization Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not applicable.
	QPCR Normalization Primer 2	Not applicable.
	QPCR Normalization Primer 3	Not applicable.
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	RT/RNase Block	Not applicable.
	Enzyme Mixture	
<b>Supplemental label elements</b>	: SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Safety data sheet available on request.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not applicable.
	QPCR Normalization Primer 2	Not applicable.
	QPCR Normalization Primer 3	Not applicable.
	2X Brilliant II QRT-PCR Master Mix	Safety data sheet available on request.
	Reference Dye	Not applicable.
	RT/RNase Block	Safety data sheet available on request.
	Enzyme Mixture	

## SECTION 2: Hazards identification

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II	Not applicable.
	Neutralization Buffer	
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization	Not applicable.
	Primer 1	
	QPCR Normalization	Not applicable.
	Primer 2	
	QPCR Normalization	Not applicable.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
RT/RNase Block	Not applicable.	
Enzyme Mixture		

### Special packaging requirements

<b>Containers to be fitted with child-resistant fastenings</b>	<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II	Not applicable.
	Neutralization Buffer	
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization	Not applicable.
	Primer 1	
	QPCR Normalization	Not applicable.
	Primer 2	
	QPCR Normalization	Not applicable.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
RT/RNase Block	Not applicable.	
Enzyme Mixture		

<b>Tactile warning of danger</b>	<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II	Not applicable.
	Neutralization Buffer	
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization	Not applicable.
	Primer 1	
	QPCR Normalization	Not applicable.
	Primer 2	
	QPCR Normalization	Not applicable.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
RT/RNase Block	Not applicable.	
Enzyme Mixture		

### 2.3 Other hazards

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

SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917

**SECTION 2: Hazards identification**

SideStep Lysis & Stabilization Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SideStep II Neutralization Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SideStep II DNase I	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SideStep II DNase Digestion Buffer 10X	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
QPCR Normalization Primer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
QPCR Normalization Primer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
QPCR Normalization Primer 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
2X Brilliant II QRT-PCR Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Reference Dye	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
RT/RNase Block Enzyme Mixture	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**

SideStep Lysis & Stabilization Buffer	None known.
SideStep II Neutralization Buffer	None known.
SideStep II DNase I	None known.
SideStep II DNase Digestion Buffer 10X	None known.
QPCR Normalization Primer 1	None known.
QPCR Normalization Primer 2	None known.
QPCR Normalization Primer 3	None known.
2X Brilliant II QRT-PCR Master Mix	None known.
Reference Dye	None known.
RT/RNase Block Enzyme Mixture	None known.

**Substances identified as having endocrine disruptor properties**

Ingredient name	Impact
SideStep Lysis & Stabilization Buffer	
Polyoxyethylene octyl phenyl ether	Environment

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

<b>3.1 Substances</b>	:	SideStep Lysis & Stabilization Buffer	Mixture
		SideStep II Neutralization Buffer	Mixture
		SideStep II DNase I	Mixture
		SideStep II DNase Digestion Buffer 10X	Mixture
		QPCR Normalization Primer 1	Mixture
		QPCR Normalization Primer 2	Mixture
		QPCR Normalization Primer 3	Mixture
		2X Brilliant II QRT-PCR Master Mix	Mixture
		Reference Dye	Mixture
		RT/RNase Block Enzyme Mixture	Mixture

### SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	<2.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2]
<b>SideStep II DNase I</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

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

Type

- SideStep Lysis & Stabilization Buffer [1] Substance classified with a health or environmental hazard  
[2] Substance of equivalent concern
- SideStep II DNase I [1] Substance with a workplace exposure limit
- 2X Brilliant II QRT-PCR Master Mix [1] Substance with a workplace exposure limit
- RT/RNase Block Enzyme Mixture [1] Substance with a workplace exposure limit

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


### SECTION 4: First aid measures

#### 4.1 Description of first aid measures


<b>Eye contact</b>	: SideStep Lysis & Stabilization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	SideStep II Neutralization Buffer	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.
	SideStep II DNase I	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.
	SideStep II DNase Digestion Buffer 10X	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.
	QPCR Normalization Primer 1	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.
	QPCR Normalization Primer 2	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.
	QPCR Normalization Primer 3	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

**SECTION 4: First aid measures**

**Inhalation**

2X Brilliant II QRT-PCR Master Mix	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.
Reference Dye	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.
RT/RNase Block Enzyme Mixture	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.
:  SideStep Lysis & Stabilization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SideStep II Neutralization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SideStep II DNase I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SideStep II DNase Digestion Buffer 10X	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primer 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
2X Brilliant II QRT-PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Reference Dye	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.
RT/RNase Block Enzyme Mixture	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**

:  SideStep Lysis & Stabilization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SideStep II Neutralization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SideStep II DNase I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SideStep II DNase Digestion Buffer 10X	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization	Flush contaminated skin with plenty of water. Remove

**SECTION 4: First aid measures**

**Ingestion**

Primer 1	contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization Primer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization Primer 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
2X Brilliant II QRT-PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
RT/RNase Block Enzyme Mixture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
: SideStep Lysis & Stabilization Buffer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SideStep II Neutralization 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.
SideStep II DNase I	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.
SideStep II DNase Digestion Buffer 10X	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.
QPCR Normalization Primer 1	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.
QPCR Normalization Primer 2	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.
QPCR Normalization Primer 3	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.
2X Brilliant II QRT-PCR 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.

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	Reference Dye	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.
	RT/RNase Block Enzyme Mixture	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.
<b>Protection of first-aiders</b>	: SideStep Lysis & Stabilization Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SideStep II Neutralization Buffer	No action shall be taken involving any personal risk or without suitable training.
	SideStep II DNase I	No action shall be taken involving any personal risk or without suitable training.
	SideStep II DNase Digestion Buffer 10X	No action shall be taken involving any personal risk or without suitable training.
	QPCR Normalization Primer 1	No action shall be taken involving any personal risk or without suitable training.
	QPCR Normalization Primer 2	No action shall be taken involving any personal risk or without suitable training.
	QPCR Normalization Primer 3	No action shall be taken involving any personal risk or without suitable training.
	2X Brilliant II QRT-PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	RT/RNase Block Enzyme Mixture	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

<b>Eye contact</b>	: SideStep Lysis & Stabilization Buffer	Adverse symptoms may include the following:  pain or irritation watering redness
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization Primer 1	No specific data.
	QPCR Normalization Primer 2	No specific data.
	QPCR Normalization Primer 3	No specific data.
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block Enzyme Mixture	No specific data.
<b>Inhalation</b>	: SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.

## SECTION 4: First aid measures

	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	
<b>Skin contact</b>	: SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.
	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	
<b>Ingestion</b>	: SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.
	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	

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

<b>Notes to physician</b>	: SideStep Lysis & Stabilization Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SideStep II Neutralization Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SideStep II DNase I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SideStep II DNase Digestion Buffer 10X	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	QPCR Normalization	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Primer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	QPCR Normalization	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Primer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	QPCR Normalization	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Primer 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	2X Brilliant II QRT-PCR	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## SECTION 4: First aid measures

<b>Specific treatments</b>	:	Master Mix	immediately if large quantities have been ingested or inhaled.
		Reference Dye	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.
		RT/RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Enzyme Mixture	immediately if large quantities have been ingested or inhaled.
		SideStep Lysis & Stabilization Buffer	No specific treatment.
		SideStep II	No specific treatment.
		Neutralization Buffer	No specific treatment.
		SideStep II DNase I	No specific treatment.
		SideStep II DNase	No specific treatment.
		Digestion Buffer 10X	No specific treatment.
		QPCR Normalization	No specific treatment.
		Primer 1	No specific treatment.
		QPCR Normalization	No specific treatment.
		Primer 2	No specific treatment.
		QPCR Normalization	No specific treatment.
Primer 3	No specific treatment.		
2X Brilliant II QRT-PCR Master Mix	No specific treatment.		
Reference Dye	No specific treatment.		
RT/RNase Block	No specific treatment.		
Enzyme Mixture	No specific treatment.		

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:	SideStep Lysis & Stabilization Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SideStep II	Use an extinguishing agent suitable for the surrounding fire.
		Neutralization Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SideStep II DNase I	Use an extinguishing agent suitable for the surrounding fire.
		SideStep II DNase	Use an extinguishing agent suitable for the surrounding fire.
		Digestion Buffer 10X	Use an extinguishing agent suitable for the surrounding fire.
		QPCR Normalization	Use an extinguishing agent suitable for the surrounding fire.
		Primer 1	Use an extinguishing agent suitable for the surrounding fire.
		QPCR Normalization	Use an extinguishing agent suitable for the surrounding fire.
		Primer 2	Use an extinguishing agent suitable for the surrounding fire.
		QPCR Normalization	Use an extinguishing agent suitable for the surrounding fire.
		Primer 3	Use an extinguishing agent suitable for the surrounding fire.
		2X Brilliant II QRT-PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
		Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
		RT/RNase Block	Use an extinguishing agent suitable for the surrounding fire.
Enzyme Mixture	Use an extinguishing agent suitable for the surrounding fire.		
<b>Unsuitable extinguishing media</b>	:	SideStep Lysis & Stabilization Buffer	None known.
		SideStep II	None known.
		Neutralization Buffer	None known.
		SideStep II DNase I	None known.
		SideStep II DNase	None known.
		Digestion Buffer 10X	None known.
		QPCR Normalization	None known.
		Primer 1	None known.
		QPCR Normalization	None known.
		Primer 2	None known.
		QPCR Normalization	None known.
		Primer 3	None known.
		2X Brilliant II QRT-PCR Master Mix	None known.
		Reference Dye	None known.
		RT/RNase Block	None known.
Enzyme Mixture	None known.		

## SECTION 5: Firefighting measures

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

<b>Hazards from the substance or mixture</b>	: SideStep Lysis & Stabilization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	SideStep II Neutralization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SideStep II DNase I	In a fire or if heated, a pressure increase will occur and the container may burst.
	SideStep II DNase Digestion Buffer 10X	In a fire or if heated, a pressure increase will occur and the container may burst.
	QPCR Normalization Primer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	QPCR Normalization Primer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	QPCR Normalization Primer 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X Brilliant II QRT-PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.
	RT/RNase Block Enzyme Mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: SideStep Lysis & Stabilization Buffer	Decomposition products may include the following materials:  carbon dioxide carbon monoxide No specific data.
	SideStep II Neutralization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SideStep II DNase I	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SideStep II DNase Digestion Buffer 10X	Decomposition products may include the following materials:  halogenated compounds metal oxide/oxides
	QPCR Normalization Primer 1	No specific data.
	QPCR Normalization Primer 2	No specific data.
	QPCR Normalization Primer 3	No specific data.
	2X Brilliant II QRT-PCR Master Mix	Decomposition products may include the following materials:  carbon dioxide carbon monoxide sulfur oxides
	Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	RT/RNase Block Enzyme Mixture	Decomposition products may include the following materials:  carbon dioxide carbon monoxide

### 5.3 Advice for firefighters



## SECTION 6: Accidental release measures


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

<b>For non-emergency personnel</b>	:  SideStep Lysis & Stabilization 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SideStep II Neutralization 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.
	SideStep II DNase I	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.
	SideStep II DNase Digestion Buffer 10X	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.
	QPCR Normalization Primer 1	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.
	QPCR Normalization Primer 2	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.
	QPCR Normalization Primer 3	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.
	2X Brilliant II QRT-PCR 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.
	Reference Dye	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.
	RT/RNase Block Enzyme Mixture	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	:  SideStep Lysis & Stabilization 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".
	SideStep II Neutralization 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".
	SideStep II DNase I	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

**SECTION 6: Accidental release measures**

SideStep II DNase Digestion Buffer 10X	unsuitable materials. See also the information in "For non-emergency personnel". 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".
QPCR Normalization Primer 1	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".
QPCR Normalization Primer 2	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".
QPCR Normalization Primer 3	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".
2X Brilliant II QRT-PCR 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".
Reference Dye	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".
RT/RNase Block Enzyme Mixture	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**

:  SideStep Lysis & Stabilization 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). Water polluting material. May be harmful to the environment if released in large quantities.
SideStep II Neutralization 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).
SideStep II DNase I	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).
SideStep II DNase Digestion Buffer 10X	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).
QPCR Normalization Primer 1	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).
QPCR Normalization Primer 2	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).
QPCR Normalization Primer 3	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).
2X Brilliant II QRT-PCR 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

## SECTION 6: Accidental release measures

Reference Dye	(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).
RT/RNase Block Enzyme Mixture	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

<b>Methods for cleaning up</b> : SideStep Lysis & Stabilization 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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.
SideStep II Neutralization 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.
SideStep II DNase I	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.
SideStep II DNase Digestion Buffer 10X	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.
QPCR Normalization Primer 1	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.
QPCR Normalization Primer 2	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.
QPCR Normalization Primer 3	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.
2X Brilliant II QRT-PCR Master 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.
Reference Dye	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.
RT/RNase Block Enzyme Mixture	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.

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**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**


<b>Protective measures</b>	: SideStep Lysis & Stabilization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	SideStep II Neutralization Buffer	Put on appropriate personal protective equipment (see Section 8).
	SideStep II DNase I	Put on appropriate personal protective equipment (see Section 8).
	SideStep II DNase Digestion Buffer 10X	Put on appropriate personal protective equipment (see Section 8).
	QPCR Normalization Primer 1	Put on appropriate personal protective equipment (see Section 8).
	QPCR Normalization Primer 2	Put on appropriate personal protective equipment (see Section 8).
	QPCR Normalization Primer 3	Put on appropriate personal protective equipment (see Section 8).
	2X Brilliant II QRT-PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	RT/RNase Block Enzyme Mixture	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: SideStep Lysis & Stabilization 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.
	SideStep II Neutralization 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.
	SideStep II DNase I	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.
	SideStep II DNase Digestion Buffer 10X	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.
	QPCR Normalization Primer 1	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.
	QPCR Normalization	Eating, drinking and smoking should be prohibited in areas

## SECTION 7: Handling and storage

Primer 2	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.
QPCR Normalization Primer 3	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.
2X Brilliant II QRT-PCR 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.
Reference Dye	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.
RT/RNase Block Enzyme Mixture	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

#### Storage

:  SideStep Lysis & Stabilization 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.
SideStep II Neutralization 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.
SideStep II DNase I	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.
SideStep II DNase Digestion Buffer 10X	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-

## SECTION 7: Handling and storage

	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.
QPCR Normalization Primer 1	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.
QPCR Normalization Primer 2	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.
QPCR Normalization Primer 3	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.
2X Brilliant II QRT-PCR 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.
Reference Dye	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.
RT/RNase Block Enzyme Mixture	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

## SECTION 7: Handling and storage

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)

<b>Recommendations</b>	: SideStep Lysis & Stabilization Buffer	Industrial applications, Professional applications.
	SideStep II Neutralization Buffer	Industrial applications, Professional applications.
	SideStep II DNase I	Industrial applications, Professional applications.
	SideStep II DNase Digestion Buffer 10X	Industrial applications, Professional applications.
	QPCR Normalization Primer 1	Industrial applications, Professional applications.
	QPCR Normalization Primer 2	Industrial applications, Professional applications.
	QPCR Normalization Primer 3	Industrial applications, Professional applications.
	2X Brilliant II QRT-PCR Master Mix	Industrial applications, Professional applications.
	Reference Dye	Industrial applications, Professional applications.
	RT/RNase Block Enzyme Mixture	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase Digestion Buffer 10X	Not available.
	QPCR Normalization Primer 1	Not available.
	QPCR Normalization Primer 2	Not available.
	QPCR Normalization Primer 3	Not available.
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block Enzyme Mixture	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
SideStep II DNase I Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

#### Biological exposure indices

## 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
<b>SideStep II DNase I</b> Glycerol	DNEL	Long term Inhalation	33 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	56 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	DNEL	Long term Inhalation	33 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	56 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	DNEL	Long term Inhalation	33 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	56 mg/m <sup>3</sup>	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** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

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

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

#### Skin protection

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

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

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

## SECTION 8: Exposure controls/personal protection

- 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

<b>Physical state</b>	:	SideStep Lysis & Stabilization Buffer	Liquid.	
		SideStep II Neutralization Buffer	Liquid.	
		SideStep II DNase I	Liquid.	
		SideStep II DNase Digestion Buffer 10X	Liquid.	
		QPCR Normalization Primer 1	Liquid.	
		QPCR Normalization Primer 2	Liquid.	
		QPCR Normalization Primer 3	Liquid.	
		2X Brilliant II QRT-PCR Master Mix	Liquid.	
		Reference Dye	Liquid.	
		RT/RNase Block	Liquid.	
		Enzyme Mixture		
	<b>Colour</b>	:	SideStep Lysis & Stabilization Buffer	Not available.
			SideStep II Neutralization Buffer	Not available.
			SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer 10X	Not available.	
		QPCR Normalization Primer 1	Not available.	
		QPCR Normalization Primer 2	Not available.	
		QPCR Normalization Primer 3	Not available.	
		2X Brilliant II QRT-PCR Master Mix	Not available.	
		Reference Dye	Not available.	
		RT/RNase Block	Not available.	
		Enzyme Mixture		
<b>Odour</b>		:	SideStep Lysis & Stabilization Buffer	Not available.
			SideStep II Neutralization Buffer	Not available.
			SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer 10X	Not available.	
		QPCR Normalization Primer 1	Not available.	
		QPCR Normalization Primer 2	Not available.	
		QPCR Normalization	Not available.	

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	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Odour threshold</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase	Not available.
	Digestion Buffer 10X	
	QPCR Normalization	Not available.
	Primer 1	
	QPCR Normalization	Not available.
	Primer 2	
	QPCR Normalization	Not available.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Melting point/freezing point</b>	: SideStep Lysis & Stabilization Buffer	0°C
	SideStep II Neutralization Buffer	0°C
	SideStep II DNase I	Not available.
	SideStep II DNase	0°C
	Digestion Buffer 10X	
	QPCR Normalization	0°C
	Primer 1	
	QPCR Normalization	0°C
	Primer 2	
	QPCR Normalization	0°C
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Initial boiling point and boiling range</b>	: SideStep Lysis & Stabilization Buffer	100°C
	SideStep II Neutralization Buffer	100°C
	SideStep II DNase I	Not available.
	SideStep II DNase	100°C
	Digestion Buffer 10X	
	QPCR Normalization	100°C
	Primer 1	
	QPCR Normalization	100°C
	Primer 2	
	QPCR Normalization	100°C
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	

**SECTION 9: Physical and chemical properties**

**Flammability** : SideStep Lysis & Stabilization Buffer Not applicable.  
 SideStep II Not applicable.  
 Neutralization Buffer Not applicable.  
 SideStep II DNase I Not applicable.  
 SideStep II DNase Not applicable.  
 Digestion Buffer 10X Not applicable.  
 QPCR Normalization Primer 1 Not applicable.  
 QPCR Normalization Primer 2 Not applicable.  
 QPCR Normalization Primer 3 Not applicable.  
 2X Brilliant II QRT-PCR Master Mix Not applicable.  
 Reference Dye Not applicable.  
 RT/RNase Block Not applicable.  
 Enzyme Mixture Not applicable.

**Upper/lower flammability or explosive limits** : SideStep Lysis & Stabilization Buffer Not available.  
 SideStep II Not available.  
 Neutralization Buffer Not available.  
 SideStep II DNase I Not available.  
 SideStep II DNase Not available.  
 Digestion Buffer 10X Not available.  
 QPCR Normalization Primer 1 Not available.  
 QPCR Normalization Primer 2 Not available.  
 QPCR Normalization Primer 3 Not available.  
 2X Brilliant II QRT-PCR Master Mix Not available.  
 Reference Dye Not available.  
 RT/RNase Block Not available.  
 Enzyme Mixture Not available.

**Flash point** :

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
<b>SideStep Lysis &amp; Stabilization Buffer</b>				
Polyoxyethylene octyl phenyl ether	251			
<b>SideStep II DNase I</b>				
Glycerol			177	
<b>2X Brilliant II QRT-PCR Master Mix</b>				
Dimethyl sulfoxide	87	ASTM D 93	87	
Polyethylene glycol	171 to 235		199 to 238	
<b>RT/RNase Block Enzyme Mixture</b>				
Glycerol			177	

**Auto-ignition temperature** :

SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917

**SECTION 9: Physical and chemical properties**

Ingredient name	°C	Method
<b>SideStep II DNase I</b>		
Glycerol	370	
<b>2X Brilliant II QRT-PCR Master Mix</b>		
Dimethyl sulfoxide	300 to 302	
Polyethylene glycol	360	
<b>RT/RNase Block Enzyme Mixture</b>		
Glycerol	370	

**Decomposition temperature**

- : SideStep Lysis & Stabilization Buffer Not available.
- SideStep II Neutralization Buffer Not available.
- SideStep II DNase I Not available.
- SideStep II DNase Digestion Buffer 10X Not available.
- QPCR Normalization Primer 1 Not available.
- QPCR Normalization Primer 2 Not available.
- QPCR Normalization Primer 3 Not available.
- 2X Brilliant II QRT-PCR Master Mix Not available.
- Reference Dye Not available.
- RT/RNase Block Enzyme Mixture Not available.

**pH**

- : SideStep Lysis & Stabilization Buffer Not available.
- SideStep II Neutralization Buffer Not available.
- SideStep II DNase I 7.5
- SideStep II DNase Digestion Buffer 10X Not available.
- QPCR Normalization Primer 1 Not available.
- QPCR Normalization Primer 2 Not available.
- QPCR Normalization Primer 3 Not available.
- 2X Brilliant II QRT-PCR Master Mix 8
- Reference Dye 8
- RT/RNase Block Enzyme Mixture 8

**Viscosity**

- : SideStep Lysis & Stabilization Buffer Not available.
- SideStep II Neutralization Buffer Not available.
- SideStep II DNase I Not available.
- SideStep II DNase Digestion Buffer 10X Not available.
- QPCR Normalization Primer 1 Not available.
- QPCR Normalization Primer 2 Not available.

SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917

**SECTION 9: Physical and chemical properties**

QPCR Normalization Not available.  
 Primer 3  
 2X Brilliant II QRT-PCR Not available.  
 Master Mix  
 Reference Dye Not available.  
 RT/RNase Block Not available.  
 Enzyme Mixture

**Solubility(ies)**

Media	Result
SideStep Lysis & Stabilization Buffer water	Soluble
SideStep II Neutralization Buffer water	Soluble
SideStep II DNase I water	Soluble
SideStep II DNase Digestion Buffer 10X water	Soluble
QPCR Normalization Primer 1 water	Soluble
QPCR Normalization Primer 2 water	Soluble
QPCR Normalization Primer 3 water	Soluble
2X Brilliant II QRT-PCR Master Mix cold water	Soluble
hot water	Soluble
Reference Dye water	Soluble
RT/RNase Block	
Enzyme Mixture water	Soluble

**Partition coefficient: n-octanol/water**

SideStep Lysis & Stabilization Buffer Not applicable.  
 SideStep II Neutralization Buffer Not applicable.  
 SideStep II DNase I Not applicable.  
 SideStep II DNase Digestion Buffer 10X Not applicable.  
 QPCR Normalization Primer 1 Not applicable.  
 QPCR Normalization Primer 2 Not applicable.  
 QPCR Normalization Primer 3 Not applicable.  
 2X Brilliant II QRT-PCR Master Mix Not applicable.  
 Reference Dye Not applicable.  
 RT/RNase Block Not applicable.  
 Enzyme Mixture

**Vapour pressure**

:

**SECTION 9: Physical and chemical properties**

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>SideStep Lysis &amp; Stabilization Buffer</b>						
water	23.8	3.2		92.258	12.3	
Polyoxyethylene octyl phenyl ether	0.997581	0.13				
<b>SideStep II Neutralization Buffer</b>						
water	23.8	3.2		92.258	12.3	
<b>SideStep II DNase I</b>						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
<b>SideStep II DNase Digestion Buffer 10X</b>						
water	23.8	3.2		92.258	12.3	
<b>QPCR Normalization Primer 1</b>						
water	23.8	3.2		92.258	12.3	
<b>QPCR Normalization Primer 2</b>						
water	23.8	3.2		92.258	12.3	
<b>QPCR Normalization Primer 3</b>						
water	23.8	3.2		92.258	12.3	
<b>2X Brilliant II QRT-PCR Master Mix</b>						
water	23.8	3.2		92.258	12.3	
Dimethyl sulfoxide	0.42	0.056	EU A.4			
<b>Reference Dye</b>						

**SECTION 9: Physical and chemical properties**

water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001
<b>RT/RNase Block Enzyme Mixture</b>					
water	23.8	3.2		92.258	12.3
Glycerol	0.000075	0.00001		0.0025	0.00033

**Evaporation rate** : SideStep Lysis & Stabilization Buffer Not available.  
 SideStep II Not available.  
 Neutralization Buffer  
 SideStep II DNase I Not available.  
 SideStep II DNase Not available.  
 Digestion Buffer 10X  
 QPCR Normalization Not available.  
 Primer 1  
 QPCR Normalization Not available.  
 Primer 2  
 QPCR Normalization Not available.  
 Primer 3  
 2X Brilliant II QRT-PCR Master Mix Not available.  
 Reference Dye Not available.  
 RT/RNase Block Enzyme Mixture Not available.

**Relative density** : SideStep Lysis & Stabilization Buffer Not available.  
 SideStep II Not available.  
 Neutralization Buffer  
 SideStep II DNase I Not available.  
 SideStep II DNase Not available.  
 Digestion Buffer 10X  
 QPCR Normalization Not available.  
 Primer 1  
 QPCR Normalization Not available.  
 Primer 2  
 QPCR Normalization Not available.  
 Primer 3  
 2X Brilliant II QRT-PCR Master Mix Not available.  
 Reference Dye Not available.  
 RT/RNase Block Enzyme Mixture Not available.

**Vapour density** : SideStep Lysis & Stabilization Buffer Not available.  
 SideStep II Not available.  
 Neutralization Buffer  
 SideStep II DNase I Not available.  
 SideStep II DNase Not available.  
 Digestion Buffer 10X  
 QPCR Normalization Not available.  
 Primer 1  
 QPCR Normalization Not available.  
 Primer 2  
 QPCR Normalization Not available.  
 Primer 3  
 2X Brilliant II QRT-PCR Not available.

## SECTION 9: Physical and chemical properties

	Master Mix	
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Explosive properties</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase	Not available.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not available.
	QPCR Normalization Primer 2	Not available.
	QPCR Normalization Primer 3	Not available.
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Oxidising properties</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase	Not available.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not available.
	QPCR Normalization Primer 2	Not available.
	QPCR Normalization Primer 3	Not available.
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Not available.
	Enzyme Mixture	
<b>Particle characteristics</b>		
<b>Median particle size</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Not applicable.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase	Not applicable.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	Not applicable.
	QPCR Normalization Primer 2	Not applicable.
	QPCR Normalization Primer 3	Not applicable.
	2X Brilliant II QRT-PCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	RT/RNase Block	Not applicable.
	Enzyme Mixture	




### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	<ul style="list-style-type: none"> <li>: <input checked="" type="checkbox"/> SideStep Lysis &amp; Stabilization Buffer</li> <li>SideStep II</li> <li>Neutralization Buffer</li> <li>SideStep II DNase I</li>   <li>SideStep II DNase</li> <li>Digestion Buffer 10X</li> <li>QPCR Normalization Primer 1</li> <li>QPCR Normalization Primer 2</li> <li>QPCR Normalization Primer 3</li> <li>2X Brilliant II QRT-PCR Master Mix</li> <li>Reference Dye</li>   <li>RT/RNase Block</li> <li>Enzyme Mixture</li> </ul>	<ul style="list-style-type: none"> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> </ul>
<b>10.2 Chemical stability</b>	<ul style="list-style-type: none"> <li>: <input checked="" type="checkbox"/> SideStep Lysis &amp; Stabilization Buffer</li> <li>SideStep II</li> <li>Neutralization Buffer</li> <li>SideStep II DNase I</li> <li>SideStep II DNase</li> <li>Digestion Buffer 10X</li> <li>QPCR Normalization Primer 1</li> <li>QPCR Normalization Primer 2</li> <li>QPCR Normalization Primer 3</li> <li>2X Brilliant II QRT-PCR Master Mix</li> <li>Reference Dye</li> <li>RT/RNase Block</li> <li>Enzyme Mixture</li> </ul>	<ul style="list-style-type: none"> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> <li>The product is stable.</li> </ul>
<b>10.3 Possibility of hazardous reactions</b>	<ul style="list-style-type: none"> <li>: <input checked="" type="checkbox"/> SideStep Lysis &amp; Stabilization Buffer</li> <li>SideStep II</li> <li>Neutralization Buffer</li> <li>SideStep II DNase I</li>   <li>SideStep II DNase</li> <li>Digestion Buffer 10X</li> <li>QPCR Normalization Primer 1</li> <li>QPCR Normalization Primer 2</li> <li>QPCR Normalization Primer 3</li> <li>2X Brilliant II QRT-PCR Master Mix</li> <li>Reference Dye</li>   <li>RT/RNase Block</li> <li>Enzyme Mixture</li> </ul>	<ul style="list-style-type: none"> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> </ul>

## SECTION 10: Stability and reactivity

<b>10.4 Conditions to avoid</b>	:  SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I SideStep II DNase Digestion Buffer 10X QPCR Normalization Primer 1 QPCR Normalization Primer 2 QPCR Normalization Primer 3 2X Brilliant II QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	:  SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I SideStep II DNase Digestion Buffer 10X QPCR Normalization Primer 1 QPCR Normalization Primer 2 QPCR Normalization Primer 3 2X Brilliant II QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	:  SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I  SideStep II DNase Digestion Buffer 10X QPCR Normalization Primer 1 QPCR Normalization Primer 2 QPCR Normalization Primer 3 2X Brilliant II QRT-PCR Master Mix Reference Dye  RT/RNase Block Enzyme Mixture	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.  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. 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.  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

Product/ingredient name	Result	Species	Dose	Exposure
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
<b>SideStep II DNase I</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>RT/RNase Block Enzyme Mixture</b> 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)
<b>SideStep Lysis &amp; Stabilization Buffer</b> SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	180000.0 1800	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SideStep II DNase I</b> Glycerol	12600	N/A	N/A	N/A	N/A
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	12600	N/A	N/A	N/A	N/A
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	12600	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
<b>SideStep II DNase I</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-

## SECTION 11: Toxicological information

	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
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### 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

SideStep Lysis & Stabilization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SideStep II Neutralization Buffer	Not available.
SideStep II DNase I	Routes of entry anticipated: Oral, Dermal, Inhalation.
SideStep II DNase Digestion Buffer 10X	Not available.
QPCR Normalization Primer 1	Not available.
QPCR Normalization Primer 2	Not available.
QPCR Normalization Primer 3	Not available.
2X Brilliant II QRT-PCR Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Reference Dye	Not available.
RT/RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Enzyme Mixture	

### Potential acute health effects

<b>Inhalation</b>	SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II Neutralization Buffer	No known significant effects or critical hazards.
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase Digestion Buffer 10X	No known significant effects or critical hazards.
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	

## SECTION 11: Toxicological information

<b>Ingestion</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II Neutralization Buffer	No known significant effects or critical hazards.
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Skin contact</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II Neutralization Buffer	No known significant effects or critical hazards.
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Eye contact</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Causes serious eye irritation.
	SideStep II Neutralization Buffer	No known significant effects or critical hazards.
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	

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

<b>Inhalation</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase	No specific data.
	Digestion Buffer 10X	
	QPCR Normalization	No specific data.

## SECTION 11: Toxicological information

	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	
<b>Ingestion</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.
	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	
<b>Skin contact</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No specific data.
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.
	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No specific data.
	Reference Dye	No specific data.
	RT/RNase Block	No specific data.
	Enzyme Mixture	
<b>Eye contact</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	SideStep II Neutralization Buffer	No specific data.
	SideStep II DNase I	No specific data.
	SideStep II DNase Digestion Buffer 10X	No specific data.
	QPCR Normalization	No specific data.
	Primer 1	
	QPCR Normalization	No specific data.
	Primer 2	
	QPCR Normalization	No specific data.
	Primer 3	
	2X Brilliant II QRT-PCR	No specific data.

## SECTION 11: Toxicological information

Master Mix	
Reference Dye	No specific data.
RT/RNase Block	No specific data.
Enzyme Mixture	

### 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

<b>General</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II	No known significant effects or critical hazards.
	Neutralization Buffer	
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II	No known significant effects or critical hazards.
	Neutralization Buffer	
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
	QPCR Normalization Primer 1	No known significant effects or critical hazards.
	QPCR Normalization Primer 2	No known significant effects or critical hazards.
	QPCR Normalization Primer 3	No known significant effects or critical hazards.
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II	No known significant effects or critical hazards.
	Neutralization Buffer	
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase	No known significant effects or critical hazards.
	Digestion Buffer 10X	
QPCR Normalization	No known significant effects or critical hazards.	

## SECTION 11: Toxicological information

	Primer 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Reproductive toxicity</b>	: SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
	SideStep II Neutralization Buffer	No known significant effects or critical hazards.
	SideStep II DNase I	No known significant effects or critical hazards.
	SideStep II DNase Digestion Buffer 10X	No known significant effects or critical hazards.
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Enzyme Mixture	
<b>Other information</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase Digestion Buffer 10X	Not available.
	QPCR Normalization	Not available.
	Primer 1	
	QPCR Normalization	Not available.
	Primer 2	
	QPCR Normalization	Not available.
	Primer 3	
	2X Brilliant II QRT-PCR Master Mix	Not available.
	Reference Dye	Not available.
	RT/RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.
	Enzyme Mixture	

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
SideStep II DNase I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours

## SECTION 12: Ecological information

<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SideStep II DNase I</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	4.86	-	high
<b>SideStep II DNase I</b> Glycerol	-1.76	-	low
<b>2X Brilliant II QRT-PCR Master Mix</b> Glycerol	-1.76	-	low
<b>RT/RNase Block Enzyme Mixture</b> Glycerol	-1.76	-	low

### 12.4 Mobility in soil

## SECTION 12: Ecological information

- Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.
- 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.

## 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** : Dispose of material(s) and residues under controlled conditions. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

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

### 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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Listed	42	1/1/2021

###### Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012

##### Ozone depleting substances

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

Not listed.

<b>Label</b>	:	<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I SideStep II DNase Digestion Buffer 10X QPCR Normalization Primer 1 QPCR Normalization Primer 2 QPCR Normalization Primer 3 2X Brilliant II QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
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##### Seveso Directive

This product is not controlled under the Seveso Directive.

##### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

## SECTION 15: Regulatory information

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

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

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: 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
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

**SideStep II QRT-PCR Master Mix Kit - 1-Step, Part Number 400917**

**SECTION 16: Other information**

Classification	Justification
<b>SideStep Lysis &amp; Stabilization Buffer</b> Eye Irrit. 2, H319 Aquatic Chronic 3, H412	Calculation method Calculation method

**Full text of abbreviated H statements**

<b>SideStep Lysis &amp; Stabilization Buffer</b> H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
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**Full text of classifications**

<b>SideStep Lysis &amp; Stabilization Buffer</b> Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
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