

# SAFETY DATA SHEET



SideStep II Cell Lysis Analysis Kit, Part Number 400916

## Section 1. Identification

**Product identifier** : SideStep II Cell Lysis Analysis Kit, Part Number 400916  
**Part No. (Chemical Kit)** : 400916  
**Part No.** :  SideStep Lysis & Stabilization Buffer 400900-21  
 SideStep II Neutralization Buffer 400916-53  
 SideStep II DNase I 400916-51  
 SideStep II DNase Digestion Buffer 400916-52  
 QPCR Normalization Primers, Set 1 400916-54  
 QPCR Normalization Primers, Set 2 400916-55  
 QPCR Normalization Primers, Set 3 400916-56

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

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	0.1 ml
QPCR Normalization Primers, Set 1	0.0125 ml (45 μM 12.5 μl)
QPCR Normalization Primers, Set 2	0.0125 ml (30 μM 12.5 μl)
QPCR Normalization Primers, Set 3	0.0125 ml (45 μM 12.5 μl)

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
 679 Springvale Road  
 Mulgrave  
 Victoria 3170, Australia  
 1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

SideStep Lysis & Stabilization Buffer  
 H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
SideStep II DNase I	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
SideStep II DNase Digestion Buffer	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

### GHS label elements

**Hazard pictograms**

SideStep Lysis & Stabilization Buffer



## Section 2. Hazard(s) identification

<b>Signal word</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	WARNING
	SideStep II Neutralization Buffer	No signal word.
	SideStep II DNase I	No signal word.
	SideStep II DNase Digestion Buffer	No signal word.
	QPCR Normalization Primers, Set 1	No signal word.
	QPCR Normalization Primers, Set 2	No signal word.
	QPCR Normalization Primers, Set 3	No signal word.
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	H319 - 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 Digestion Buffer	No known significant effects or critical hazards.
	QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.
	QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.
	QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	P280 - Wear eye or face protection.
	SideStep II Neutralization Buffer	P264 - Wash hands thoroughly after handling. Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase Digestion Buffer	Not applicable.
	QPCR Normalization Primers, Set 1	Not applicable.
	QPCR Normalization Primers, Set 2	Not applicable.
	QPCR Normalization Primers, Set 3	Not applicable.
<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 attention.
	SideStep II Neutralization Buffer	Not applicable.
	SideStep II DNase I	Not applicable.
	SideStep II DNase Digestion Buffer	Not applicable.
	QPCR Normalization Primers, Set 1	Not applicable.
	QPCR Normalization Primers, Set 2	Not applicable.
	QPCR Normalization Primers, Set 3	Not applicable.

## Section 2. Hazard(s) identification

<b>Storage</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 Digestion Buffer	Not applicable.		
		QPCR Normalization Primers, Set 1	Not applicable.		
		QPCR Normalization Primers, Set 2	Not applicable.		
		QPCR Normalization Primers, Set 3	Not applicable.		
		<b>Disposal</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 Digestion Buffer	Not applicable.				
<b>Supplemental label elements</b>	:	QPCR Normalization Primers, Set 1	Not applicable.		
		QPCR Normalization Primers, Set 2	Not applicable.		
		QPCR Normalization Primers, Set 3	Not applicable.		
		<b>Additional warning phrases</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 Digestion Buffer	Not applicable.
				QPCR Normalization Primers, Set 1	Not applicable.
				QPCR Normalization Primers, Set 2	Not applicable.
				QPCR Normalization Primers, Set 3	Not applicable.
<b>Other hazards which do not result in classification</b>	:			<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	None known.
				SideStep II Neutralization Buffer	None known.
				SideStep II DNase I	None known.
		SideStep II DNase Digestion Buffer	None known.		
		QPCR Normalization Primers, Set 1	None known.		
		QPCR Normalization Primers, Set 2	None known.		
		QPCR Normalization Primers, Set 3	None known.		

### Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	SideStep Lysis & Stabilization Buffer	Mixture
		SideStep II Neutralization Buffer	Mixture
		SideStep II DNase I	Mixture
		SideStep II DNase Digestion Buffer	Mixture
		QPCR Normalization Primers, Set 1	Mixture
		QPCR Normalization Primers, Set 2	Mixture
		QPCR Normalization Primers, Set 3	Mixture

#### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	<2.5	9002-93-1
SideStep II DNase I Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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


### Section 4. First aid measures

#### Description of necessary 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	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 Primers, Set 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 Primers, Set 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 Primers, Set 3	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.

## Section 4. First aid measures


### Inhalation

:  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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 3	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	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
QPCR Normalization Primers, Set 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

### Ingestion

:  SideStep Lysis & Stabilization Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
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## Section 4. First aid measures

	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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 Primers, Set 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 Primers, Set 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 Primers, Set 3	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	:	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 Digestion Buffer	No known significant effects or critical hazards.
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.

## Section 4. First aid measures

<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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
	<b>Skin contact</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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
<b>Ingestion</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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
	<b><u>Over-exposure signs/symptoms</u></b>			
	<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	No specific data.	
		QPCR Normalization Primers, Set 1	No specific data.	
		QPCR Normalization Primers, Set 2	No specific data.	
		QPCR Normalization Primers, Set 3	No specific data.	

## Section 4. First aid measures

<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	No specific data.	
		QPCR Normalization Primers, Set 1	No specific data.	
		QPCR Normalization Primers, Set 2	No specific data.	
		QPCR Normalization Primers, Set 3	No specific data.	
	<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	No specific data.	
		QPCR Normalization Primers, Set 1	No specific data.	
		QPCR Normalization Primers, Set 2	No specific data.	
		QPCR Normalization Primers, Set 3	No specific data.	
<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	No specific data.	
		QPCR Normalization Primers, Set 1	No specific data.	
		QPCR Normalization Primers, Set 2	No specific data.	
		QPCR Normalization Primers, Set 3	No specific data.	

### Indication of immediate medical attention and special treatment needed, if necessary

<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	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		QPCR Normalization Primers, Set 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		QPCR Normalization Primers, Set 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		QPCR Normalization Primers, Set 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.



## Section 4. First aid measures

<b>Specific treatments</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I SideStep II DNase Digestion Buffer QPCR Normalization Primers, Set 1 QPCR Normalization Primers, Set 2 QPCR Normalization Primers, Set 3	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer  SideStep II Neutralization Buffer SideStep II DNase I  SideStep II DNase Digestion Buffer QPCR Normalization Primers, Set 1 QPCR Normalization Primers, Set 2 QPCR Normalization Primers, Set 3	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.  No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.  No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media


<b>Suitable extinguishing media</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I  SideStep II DNase Digestion Buffer QPCR Normalization Primers, Set 1 QPCR Normalization Primers, Set 2 QPCR Normalization Primers, Set 3	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer SideStep II Neutralization Buffer SideStep II DNase I SideStep II DNase Digestion Buffer QPCR Normalization Primers, Set 1 QPCR Normalization Primers, Set 2 QPCR Normalization Primers, Set 3	None known. None known. None known. None known. None known. None known. None known.

## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	:	SideStep Lysis & Stabilization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.		
		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	In a fire or if heated, a pressure increase will occur and the container may burst.		
		QPCR Normalization Primers, Set 1	In a fire or if heated, a pressure increase will occur and the container may burst.		
		QPCR Normalization Primers, Set 2	In a fire or if heated, a pressure increase will occur and the container may burst.		
		QPCR Normalization Primers, Set 3	In a fire or if heated, a pressure increase will occur and the container may burst.		
		<b>Hazardous thermal decomposition products</b>	:	SideStep Lysis & Stabilization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data.
				SideStep II Neutralization Buffer	No specific data.
				SideStep II DNase I	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SideStep II DNase Digestion Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides				
QPCR Normalization Primers, Set 1	No specific data.				
QPCR Normalization Primers, Set 2	No specific data.				
QPCR Normalization Primers, Set 3	No specific data.				
<b>Special protective actions for fire-fighters</b>	:			SideStep Lysis & Stabilization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
				SideStep II Neutralization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
				SideStep II DNase I	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		SideStep II DNase Digestion Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
		QPCR Normalization Primers, Set 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
		QPCR Normalization Primers, Set 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
		QPCR Normalization Primers, Set 3	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or		

## Section 5. Firefighting measures


### Special protective equipment for fire-fighters

:  SideStep Lysis & Stabilization Buffer	without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SideStep II Neutralization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SideStep II DNase I	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SideStep II DNase Digestion Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
QPCR Normalization Primers, Set 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
QPCR Normalization Primers, Set 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
QPCR Normalization Primers, Set 3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

:  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	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 Primers, Set 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

## Section 6. Accidental release measures

	QPCR Normalization Primers, Set 2	through spilt material. Put on appropriate personal protective equipment. 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 Primers, Set 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.
<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 unsuitable materials. See also the information in "For non-emergency personnel".
	SideStep II DNase Digestion 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".
	QPCR Normalization Primers, Set 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 Primers, Set 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 Primers, Set 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".
<b>Environmental precautions</b>	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).
	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	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).

## Section 6. Accidental release measures

QPCR Normalization Primers, Set 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 Primers, Set 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 Primers, Set 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).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	:	<input checked="" type="checkbox"/> 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. Dispose of via a licensed waste disposal contractor.
		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	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 Primers, Set 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 Primers, Set 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 Primers, Set 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.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

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. 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	Put on appropriate personal protective equipment (see Section 8).
QPCR Normalization Primers, Set 1	Put on appropriate personal protective equipment (see Section 8).
QPCR Normalization Primers, Set 2	Put on appropriate personal protective equipment (see Section 8).
QPCR Normalization Primers, Set 3	Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

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	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 Primers, Set 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 Primers, Set 2	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

## Section 7. Handling and storage

	<p>QPCR Normalization Primers, Set 3</p>	<p>additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p><b>Conditions for safe storage, including any incompatibilities</b></p>	<p>: SideStep Lysis &amp; Stabilization Buffer</p>	<p>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.</p>
	<p>SideStep II Neutralization Buffer</p>	<p>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.</p>
	<p>SideStep II DNase I</p>	<p>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.</p>
	<p>SideStep II DNase Digestion Buffer</p>	<p>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.</p>
	<p>QPCR Normalization Primers, Set 1</p>	<p>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</p>

## Section 7. Handling and storage

QPCR Normalization  
Primers, Set 2

incompatible materials before handling or use. 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  
Primers, Set 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.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
SideStep II DNase I Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

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

### 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: chemical splash goggles.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately



## Section 8. Exposure controls and personal protection

- estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : SideStep Lysis & Stabilization Buffer Liquid.  
SideStep II Neutralization Buffer Liquid.  
SideStep II DNase I Liquid.  
SideStep II DNase Digestion Buffer Liquid.  
QPCR Normalization Primers, Set 1 Liquid.  
QPCR Normalization Primers, Set 2 Liquid.  
QPCR Normalization Primers, Set 3 Liquid.
- Colour** : SideStep Lysis & Stabilization Buffer Not available.  
SideStep II Neutralization Buffer Not available.  
SideStep II DNase I Not available.  
SideStep II DNase Digestion Buffer Not available.  
QPCR Normalization Primers, Set 1 Not available.  
QPCR Normalization Primers, Set 2 Not available.  
QPCR Normalization Primers, Set 3 Not available.
- Odour** : SideStep Lysis & Stabilization Buffer Not available.  
SideStep II Neutralization Buffer Not available.  
SideStep II DNase I Not available.  
SideStep II DNase Digestion Buffer Not available.  
QPCR Normalization Primers, Set 1 Not available.  
QPCR Normalization Primers, Set 2 Not available.  
QPCR Normalization Primers, Set 3 Not available.
- Odour threshold** : SideStep Lysis & Stabilization Buffer Not available.  
SideStep II Neutralization Buffer Not available.  
SideStep II DNase I Not available.  
SideStep II DNase Digestion Buffer Not available.  
QPCR Normalization Primers, Set 1 Not available.

## Section 9. Physical and chemical properties

		Primers, Set 1	
		QPCR Normalization	Not available.
		Primers, Set 2	
		QPCR Normalization	Not available.
		Primers, Set 3	
<b>pH</b>	:	SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
		SideStep II DNase I	7.5
		SideStep II DNase Digestion Buffer	Not available.
		QPCR Normalization	Not available.
		Primers, Set 1	
		QPCR Normalization	Not available.
		Primers, Set 2	
		QPCR Normalization	Not available.
		Primers, Set 3	
<b>Melting point</b>	:	SideStep Lysis & Stabilization Buffer	0°C (32°F)
		SideStep II Neutralization Buffer	0°C (32°F)
		SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer	0°C (32°F)
		QPCR Normalization	0°C (32°F)
		Primers, Set 1	
		QPCR Normalization	0°C (32°F)
		Primers, Set 2	
		QPCR Normalization	0°C (32°F)
		Primers, Set 3	
<b>Boiling point</b>	:	SideStep Lysis & Stabilization Buffer	100°C (212°F)
		SideStep II Neutralization Buffer	100°C (212°F)
		SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer	100°C (212°F)
		QPCR Normalization	100°C (212°F)
		Primers, Set 1	
		QPCR Normalization	100°C (212°F)
		Primers, Set 2	
		QPCR Normalization	100°C (212°F)
		Primers, Set 3	
<b>Flash point</b>	:	SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
		SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer	Not available.
		QPCR Normalization	Not available.
		Primers, Set 1	
		QPCR Normalization	Not available.
		Primers, Set 2	
		QPCR Normalization	Not available.
		Primers, Set 3	

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: SideStep Lysis & Stabilization Buffer	Not available.	
	SideStep II Neutralization Buffer	Not available.	
	SideStep II DNase I	Not available.	
	SideStep II DNase Digestion Buffer	Not available.	
	QPCR Normalization Primers, Set 1	Not available.	
	QPCR Normalization Primers, Set 2	Not available.	
	QPCR Normalization Primers, Set 3	Not available.	
	<b>Flammability (solid, gas)</b>	: SideStep Lysis & Stabilization Buffer	Not applicable.
		SideStep II Neutralization Buffer	Not applicable.
SideStep II DNase I		Not applicable.	
SideStep II DNase Digestion Buffer		Not applicable.	
QPCR Normalization Primers, Set 1		Not applicable.	
QPCR Normalization Primers, Set 2		Not applicable.	
QPCR Normalization Primers, Set 3		Not applicable.	
<b>Lower and upper explosive (flammable) limits</b>		: SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.	
	SideStep II DNase Digestion Buffer	Not available.	
	QPCR Normalization Primers, Set 1	Not available.	
	QPCR Normalization Primers, Set 2	Not available.	
	QPCR Normalization Primers, Set 3	Not available.	
	<b>Vapour pressure</b>	: SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
SideStep II DNase I		Not available.	
SideStep II DNase Digestion Buffer		Not available.	
QPCR Normalization Primers, Set 1		Not available.	
QPCR Normalization Primers, Set 2		Not available.	
QPCR Normalization Primers, Set 3		Not available.	
<b>Vapour density</b>		: SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.	
	SideStep II DNase Digestion Buffer	Not available.	
	QPCR Normalization Primers, Set 1	Not available.	

## Section 9. Physical and chemical properties

	Primers, Set 2	
	QPCR Normalization	Not available.
	Primers, Set 3	
<b>Relative density</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase Digestion Buffer	Not available.
	QPCR Normalization	Not available.
	Primers, Set 1	
	QPCR Normalization	Not available.
	Primers, Set 2	
	QPCR Normalization	Not available.
	Primers, Set 3	
<b>Solubility</b>	: SideStep Lysis & Stabilization Buffer	Easily soluble in the following materials: cold water and hot water.
	SideStep II Neutralization Buffer	Easily soluble in the following materials: cold water and hot water.
	SideStep II DNase I	Soluble in the following materials: cold water and hot water.
	SideStep II DNase Digestion Buffer	Easily soluble in the following materials: cold water and hot water.
	QPCR Normalization	Easily soluble in the following materials: cold water and hot water.
	Primers, Set 1	
	QPCR Normalization	Easily soluble in the following materials: cold water and hot water.
	Primers, Set 2	
	QPCR Normalization	Easily soluble in the following materials: cold water and hot water.
	Primers, Set 3	
<b>Partition coefficient: n-octanol/water</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase Digestion Buffer	Not available.
	QPCR Normalization	Not available.
	Primers, Set 1	
	QPCR Normalization	Not available.
	Primers, Set 2	
	QPCR Normalization	Not available.
	Primers, Set 3	
<b>Auto-ignition temperature</b>	: SideStep Lysis & Stabilization Buffer	Not available.
	SideStep II Neutralization Buffer	Not available.
	SideStep II DNase I	Not available.
	SideStep II DNase Digestion Buffer	Not available.
	QPCR Normalization	Not available.
	Primers, Set 1	
	QPCR Normalization	Not available.
	Primers, Set 2	
	QPCR Normalization	Not available.
	Primers, Set 3	

## Section 9. Physical and chemical properties

<b>Decomposition temperature</b>	: SideStep Lysis & Stabilization Buffer	Not available.	
	SideStep II Neutralization Buffer	Not available.	
	SideStep II DNase I	Not available.	
	SideStep II DNase Digestion Buffer	Not available.	
	QPCR Normalization Primers, Set 1	Not available.	
	QPCR Normalization Primers, Set 2	Not available.	
	QPCR Normalization Primers, Set 3	Not available.	
	<b>Viscosity</b>	: SideStep Lysis & Stabilization Buffer	Not available.
		SideStep II Neutralization Buffer	Not available.
		SideStep II DNase I	Not available.
		SideStep II DNase Digestion Buffer	Not available.
		QPCR Normalization Primers, Set 1	Not available.
		QPCR Normalization Primers, Set 2	Not available.
QPCR Normalization Primers, Set 3	Not available.		

## Section 10. Stability and reactivity

<b>Reactivity</b>	: SideStep Lysis & Stabilization Buffer	No specific test data related to reactivity available for this product or its ingredients.	
	SideStep II Neutralization Buffer	No specific test data related to reactivity available for this product or its ingredients.	
	SideStep II DNase I	No specific test data related to reactivity available for this product or its ingredients.	
	SideStep II DNase Digestion Buffer	No specific test data related to reactivity available for this product or its ingredients.	
	QPCR Normalization Primers, Set 1	No specific test data related to reactivity available for this product or its ingredients.	
	QPCR Normalization Primers, Set 2	No specific test data related to reactivity available for this product or its ingredients.	
	QPCR Normalization Primers, Set 3	No specific test data related to reactivity available for this product or its ingredients.	
	<b>Chemical stability</b>	: SideStep Lysis & Stabilization Buffer	The product is stable.
		SideStep II Neutralization Buffer	The product is stable.
		SideStep II DNase I	The product is stable.
SideStep II DNase Digestion Buffer		The product is stable.	
QPCR Normalization Primers, Set 1		The product is stable.	
QPCR Normalization Primers, Set 2		The product is stable.	
QPCR Normalization Primers, Set 3	The product is stable.		

## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SideStep II Neutralization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SideStep II DNase I	Under normal conditions of storage and use, hazardous reactions will not occur.
	SideStep II DNase Digestion Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	QPCR Normalization Primers, Set 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	QPCR Normalization Primers, Set 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	QPCR Normalization Primers, Set 3	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</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	No specific data.
	QPCR Normalization Primers, Set 1	No specific data.
	QPCR Normalization Primers, Set 2	No specific data.
	QPCR Normalization Primers, Set 3	No specific data.
<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	May react or be incompatible with oxidising materials.
	SideStep II Neutralization Buffer	May react or be incompatible with oxidising materials.
	SideStep II DNase I	May react or be incompatible with oxidising materials.
	SideStep II DNase Digestion Buffer	May react or be incompatible with oxidising materials.
	QPCR Normalization Primers, Set 1	May react or be incompatible with oxidising materials.
	QPCR Normalization Primers, Set 2	May react or be incompatible with oxidising materials.
	QPCR Normalization Primers, Set 3	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SideStep II Neutralization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SideStep II DNase I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SideStep II DNase Digestion Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	QPCR Normalization Primers, Set 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	QPCR Normalization Primers, Set 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	QPCR Normalization	Under normal conditions of storage and use,

**Section 10. Stability and reactivity**

Primers, Set 3

hazardous decomposition products should not be produced.

**Section 11. Toxicological information****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	-

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SideStep Lysis &amp; Stabilization Buffer</b> Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
<b>SideStep II DNase I</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

**Sensitisation**

Not available.

**Mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Reproductive toxicity**

Not available.

**Teratogenicity**

Not available.

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

Not available.

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

Not available.

**Aspiration hazard**

Not available.

## Section 11. Toxicological information

<b>Information on likely routes of exposure</b>	<b>SideStep Lysis &amp; Stabilization Buffer</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<b>SideStep II Neutralization Buffer</b>	Not available.
	<b>SideStep II DNase I</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<b>SideStep II DNase Digestion Buffer</b>	Not available.
	<b>QPCR Normalization Primers, Set 1</b>	Not available.
	<b>QPCR Normalization Primers, Set 2</b>	Not available.
	<b>QPCR Normalization Primers, Set 3</b>	Not available.

### Potential acute health effects

<b>Eye contact</b>	<b>SideStep Lysis &amp; Stabilization Buffer</b>	Causes serious eye irritation.
	<b>SideStep II Neutralization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase I</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase Digestion Buffer</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 1</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 2</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 3</b>	No known significant effects or critical hazards.

<b>Inhalation</b>	<b>SideStep Lysis &amp; Stabilization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II Neutralization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase I</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase Digestion Buffer</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 1</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 2</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 3</b>	No known significant effects or critical hazards.

<b>Skin contact</b>	<b>SideStep Lysis &amp; Stabilization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II Neutralization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase I</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase Digestion Buffer</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 1</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 2</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 3</b>	No known significant effects or critical hazards.

<b>Ingestion</b>	<b>SideStep Lysis &amp; Stabilization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II Neutralization Buffer</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase I</b>	No known significant effects or critical hazards.
	<b>SideStep II DNase Digestion Buffer</b>	No known significant effects or critical hazards.
	<b>QPCR Normalization Primers, Set 1</b>	No known significant effects or critical hazards.



## Section 11. Toxicological information

QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.
QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.

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

<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	No specific data.
	QPCR Normalization Primers, Set 1	No specific data.
	QPCR Normalization Primers, Set 2	No specific data.
	QPCR Normalization Primers, Set 3	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	No specific data.
	QPCR Normalization Primers, Set 1	No specific data.
	QPCR Normalization Primers, Set 2	No specific data.
	QPCR Normalization Primers, Set 3	No specific data.
<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	No specific data.
	QPCR Normalization Primers, Set 1	No specific data.
	QPCR Normalization Primers, Set 2	No specific data.
	QPCR Normalization Primers, Set 3	No specific data.
<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	No specific data.
	QPCR Normalization Primers, Set 1	No specific data.
	QPCR Normalization Primers, Set 2	No specific data.
	QPCR Normalization Primers, Set 3	No specific data.

## Section 11. Toxicological information

### 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

Not available.

<b>General</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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
	<b>Carcinogenicity</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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
<b>Mutagenicity</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	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 1	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 2	No known significant effects or critical hazards.	
		QPCR Normalization Primers, Set 3	No known significant effects or critical hazards.	
	<b>Teratogenicity</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	No known significant effects or critical hazards.	
		QPCR Normalization	No known significant effects or critical hazards.	
		QPCR Normalization	No known significant effects or critical hazards.	

## Section 11. Toxicological information

	Primers, Set 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 3	
<b>Developmental effects</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	No known significant effects or critical hazards.
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 3	
<b>Fertility effects</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	No known significant effects or critical hazards.
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 1	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 2	
	QPCR Normalization	No known significant effects or critical hazards.
	Primers, Set 3	

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
SideStep Lysis & Stabilization Buffer Oral	180000 mg/kg

## Section 12. Ecological information

### Toxicity

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

### Persistence and degradability

## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
SideStep II DNase I Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	-	-	Readily	

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	4.86	-	high
SideStep II DNase I Glycerol	-1.76	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**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.

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

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>Europe</b>	: Not determined.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 22/01/2018

**Date of previous issue** : 28/10/2015.

**Version** : 5

### Key to abbreviations

ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission

## Section 16. Any other relevant information

SUSMP = Standard Uniform Schedule of Medicine and Poisons  
UN = United Nations

### Procedure used to derive the classification

Classification	Justification
SideStep Lysis & Stabilization Buffer Eye Irrit. 2A, H319	Calculation method

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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