



## SECTION 2: Hazards identification

### Buffer 1X

H225	FLAMMABLE LIQUIDS	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)	Category 3

<b>Ingredients of unknown toxicity</b>	: Solution 2	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Solution 3	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Wash Buffer (2X)	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	Nuclease Removal Buffer 1X	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

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

#### Hazard pictograms

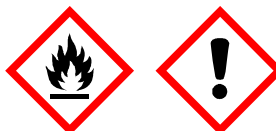
: Solution 2



Solution 3



Nuclease Removal Buffer 1X



#### Signal word

: Solution 1	No signal word.
Solution 2	Danger
Solution 3	Warning
Wash Buffer (2X)	No signal word.
Nuclease Removal Buffer 1X	Danger

#### Hazard statements

: Solution 1	No known significant effects or critical hazards.
Solution 2	H314 - Causes severe skin burns and eye damage.
Solution 3	H302 + H332 - Harmful if swallowed or if inhaled.
	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H412 - Harmful to aquatic life with long lasting effects.
Wash Buffer (2X)	No known significant effects or critical hazards.
Nuclease Removal Buffer 1X	H225 - Highly flammable liquid and vapour.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness.

#### Precautionary statements

## SECTION 2: Hazards identification

<b>Prevention</b>	: Solution 1 Solution 2  Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. P280 - Wear protective gloves, protective clothing and eye or face protection. P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P261 - Avoid breathing vapour. P270 - Do not eat, drink or smoke when using this product. Not applicable. P280 - Wear eye or face protection.  P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapour.
<b>Response</b>	: Solution 1 Solution 2  Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Not applicable. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
<b>Storage</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. Not applicable. Not applicable. Not applicable. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: Solution 1 Solution 2  Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	- sodium hydroxide - salts of thiocyanic acid Not applicable. - propan-2-ol
<b>Supplemental label elements</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. Not applicable. Not applicable. Safety data sheet available on request. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

### Special packaging requirements

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 2: Hazards identification**

<b>Tactile warning of danger</b>	<b>:</b> Solution 1	Not applicable.
	Solution 2	Not applicable.
	Solution 3	Not applicable.
	Wash Buffer (2X)	Not applicable.
	Nuclease Removal Buffer 1X	Not applicable.

**2.3 Other hazards**

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	<b>:</b> Solution 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Solution 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Solution 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Wash Buffer (2X)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Nuclease Removal Buffer 1X	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

<b>Other hazards which do not result in classification</b>	<b>:</b> <input checked="" type="checkbox"/> Solution 1	None known.
	Solution 2	Causes digestive tract burns.
	Solution 3	Causes digestive tract burns.
	Wash Buffer (2X)	None known.
	Nuclease Removal Buffer 1X	Causes digestive tract burns.

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

<b>3.1 Substances</b>	<b>:</b> Solution 1	Mixture
	Solution 2	Mixture
	Solution 3	Mixture
	Wash Buffer (2X)	Mixture
	Nuclease Removal Buffer 1X	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> <b>Solution 2</b> Sodium dodecyl sulphate	EC: 205-788-1 CAS: 151-21-3	≤3	Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
Sodium hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤1	Skin Corr. 1A, H314	[1] [2]
<b>Solution 3</b> Guanidinium thiocyanate	EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412	[1]
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	≥10 - <25	EUH032 Flam. Liq. 3, H226 Skin Corr. 1A, H314	[1] [2]
<b>Wash Buffer (2X)</b> Sodium chloride	EC: 231-598-3	≤3	Eye Irrit. 2, H319	[1]

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

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

<b>Nuclease Removal Buffer 1X</b>	CAS: 7647-14-5			
Propan-2-ol	EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Guanidinium thiocyanate	EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3	≥10 - <25	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH032	[1]
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	<10	Flam. Liq. 3, H226 Skin Corr. 1A, H314	[1] [2]
			<b>See Section 16 for the full text of the H statements declared above.</b>	

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: Solution 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.
	Solution 2	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
	Solution 3	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.
	Wash Buffer (2X)	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.
	Nuclease Removal Buffer 1X	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.
	<b>Inhalation</b>	: Solution 1
Solution 2		Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

**SECTION 4: First aid measures**

personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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.

Solution 3  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. 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.

Wash Buffer (2X)  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Nuclease Removal Buffer 1X  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**

: Solution 1  
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Solution 2  
Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Solution 3  
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash Buffer (2X)  
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Nuclease Removal Buffer 1X  
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.

**SECTION 4: First aid measures**

<b>Ingestion</b>	: Solution 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.
	Solution 2	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.
	Solution 3	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 necessary, call a poison center or physician. 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.
	Wash Buffer (2X)	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.
	Nuclease Removal Buffer 1X	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 necessary, call a poison center or physician. 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.
<b>Protection of first-aiders</b>	: Solution 1	No action shall be taken involving any personal risk or without suitable training.
	Solution 2	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Solution 3	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Wash Buffer (2X)	No action shall be taken involving any personal risk or without suitable training.

## SECTION 4: First aid measures

Nuclease Removal  
Buffer 1X

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Potential acute health effects

<b>Eye contact</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Causes serious eye damage. Causes serious eye irritation. No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if inhaled. No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Causes severe burns. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Solution 1 Solution 2 Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. Harmful if swallowed. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Solution 1 Solution 2  Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	No specific data. Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: pain or irritation watering redness No specific data. Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

## SECTION 4: First aid measures

<b>Skin contact</b>	:	Solution 1	No specific data.
		Solution 2	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		Solution 3	Adverse symptoms may include the following: irritation redness
	Wash Buffer (2X) Nuclease Removal Buffer 1X	No specific data. No specific data.	
<b>Ingestion</b>	:	Solution 1	No specific data.
		Solution 2	Adverse symptoms may include the following: stomach pains
		Solution 3	Adverse symptoms may include the following: stomach pains
	Wash Buffer (2X) Nuclease Removal Buffer 1X	No specific data. Adverse symptoms may include the following:  stomach pains	

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

<b>Notes to physician</b>	:	Solution 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Solution 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Solution 3	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.
		Wash Buffer (2X)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Nuclease Removal Buffer 1X	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.
<b>Specific treatments</b>	:	Solution 1	No specific treatment.
		Solution 2	No specific treatment.
		Solution 3	No specific treatment.
		Wash Buffer (2X)	No specific treatment.
		Nuclease Removal Buffer 1X	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:	Solution 1	Use an extinguishing agent suitable for the surrounding fire.
		Solution 2	Use an extinguishing agent suitable for the surrounding fire.
		Solution 3	Use an extinguishing agent suitable for the surrounding fire.
		Wash Buffer (2X)	Use an extinguishing agent suitable for the surrounding fire.
		Nuclease Removal Buffer 1X	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	:	Solution 1	None known.
		Solution 2	None known.
		Solution 3	None known.
		Wash Buffer (2X)	None known.
		Nuclease Removal Buffer 1X	Do not use water jet.

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

## SECTION 5: Firefighting measures

<b>Hazards from the substance or mixture</b>	: Solution 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Solution 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Solution 3	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.
	Wash Buffer (2X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Nuclease Removal Buffer 1X	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
<b>Hazardous combustion products</b>	: Solution 1	No specific data.
	Solution 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides
	Solution 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	Wash Buffer (2X)	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Nuclease Removal Buffer 1X	Decomposition products may include the following materials:  carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: Solution 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.
	Solution 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.
	Solution 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 without suitable training.
	Wash Buffer (2X)	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.
	Nuclease Removal Buffer 1X	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## SECTION 5: Firefighting measures

<b>Special protective equipment for fire-fighters</b>	: Solution 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Solution 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Solution 3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Wash Buffer (2X)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nuclease Removal Buffer 1X	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: Solution 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.
	Solution 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Solution 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Wash Buffer (2X)	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.
	Nuclease Removal Buffer 1X	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate

## SECTION 6: Accidental release measures

### For emergency responders

: Solution 1	ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Solution 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".
Solution 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".
Wash Buffer (2X)	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".
Nuclease Removal Buffer 1X	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

: Solution 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).
Solution 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).
Solution 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). Water polluting material. May be harmful to the environment if released in large quantities.
Wash Buffer (2X)	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).
Nuclease Removal Buffer 1X	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

#### Methods for cleaning up

: Solution 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.
Solution 2	Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Move containers from spill area. Dispose of via a licensed waste disposal contractor.
Solution 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

## SECTION 6: Accidental release measures

Wash Buffer (2X)	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Nuclease Removal Buffer 1X	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: Solution 1	Put on appropriate personal protective equipment (see Section 8).
	Solution 2	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Solution 3	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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
	Wash Buffer (2X)	Put on appropriate personal protective equipment (see Section 8).
	Nuclease Removal Buffer 1X	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## SECTION 7: Handling and storage

### Advice on general occupational hygiene

: Solution 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.
Solution 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 additional information on hygiene measures.
Solution 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.
Wash Buffer (2X)	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.
Nuclease Removal Buffer 1X	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

: Solution 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.
Solution 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. Store locked up. Separate from acids. 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.
Solution 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.
Wash Buffer (2X)	Store in accordance with local regulations. Store in original

## SECTION 7: Handling and storage

Nuclease Removal Buffer 1X

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.

Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. 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.

### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Nuclease Removal Buffer 1X P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not available. Not available. Not available. Not available. Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>Solution 2</b> Sodium hydroxide	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 2 mg/m <sup>3</sup> 15 minutes.
<b>Solution 3</b> acetic acid	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 50 mg/m <sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes. TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.



## SECTION 8: Exposure controls/personal protection

Nuclease Removal Buffer 1X Propan-2-ol  acetic acid	DNEL	Long term Dermal	kg bw/day 295.52 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	443.28 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	443.28 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	2068.62 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	2068.62 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	25 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	25 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	25 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	25 mg/m <sup>3</sup>	Workers	Local

### 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: 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 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.

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

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

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

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

<b>Physical state</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Liquid. Liquid. Liquid. Liquid. Liquid.
<b>Colour</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not available. Not available. Not available. Not available. Not available.
<b>Odour</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not available. Not available. Not available. Not available. Not available.
<b>Odour threshold</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not available. Not available. Not available. Not available. Not available.
<b>Melting point/freezing point</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	0°C 0°C Not available. 0°C Not available.
<b>Initial boiling point and boiling range</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	100°C (212°F) 100°C (212°F) Not available. 100°C (212°F) Not available.
<b>Flammability (solid, gas)</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

**SECTION 9: Physical and chemical properties**

**Upper/lower flammability or explosive limits** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**Flash point** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Closed cup: 12 to 23°C (53.6 to 73.4°F)

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>Solution 1</b> Edetic acid	>100	>212	DIN 51758			
<b>Solution 3</b> acetic acid	39	102.2				
<b>Wash Buffer (2X)</b> Edetic acid	>100	>212	DIN 51758			

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<b>Solution 1</b> Edetic acid	>400	>752	VDI 2263
<b>Solution 2</b> Sodium dodecyl sulphate	310.5	590.9	VDI 2263
<b>Solution 3</b> potassium acetate	>410	>770	EU A.16
acetic acid	463	865.4	
<b>Wash Buffer (2X)</b> Edetic acid	>400	>752	VDI 2263
<b>Nuclease Removal Buffer 1X</b> potassium acetate	>410	>770	EU A.16
Propan-2-ol	456	852.8	

**Decomposition temperature** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**pH** : Solution 1 7.5  
 Solution 2 >12  
 Solution 3 4.4  
 Wash Buffer (2X) 7.5  
 Nuclease Removal Buffer 1X 4.4

**SECTION 9: Physical and chemical properties**

- Viscosity** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.
- Solubility(ies)** : Solution 1 Easily soluble in the following materials: cold water and hot water.  
 Solution 2 Easily soluble in the following materials: cold water and hot water.  
 Solution 3 Soluble in the following materials: cold water and hot water.  
 Wash Buffer (2X) Easily soluble in the following materials: cold water and hot water.  
 Nuclease Removal Buffer 1X Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Solution 1 Not applicable.  
 Solution 2 Not applicable.  
 Solution 3 Not applicable.  
 Wash Buffer (2X) Not applicable.  
 Nuclease Removal Buffer 1X Not applicable.
- Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Solution 1</b>						
Water	23.8	3.2				
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
<b>Solution 2</b>						
Water	23.8	3.2				
Sodium dodecyl sulphate	≤0.0013501	≤0.00018				
<b>Solution 3</b>						
Water	23.8	3.2				
acetic acid	15.59	2.1				
<b>Wash Buffer (2X)</b>						
Water	23.8	3.2				
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
<b>Nuclease Removal Buffer 1X</b>						
Propan-2-ol	33	4.4		177	23.6	
Water	23.8	3.2				

- Evaporation rate** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**SECTION 9: Physical and chemical properties**

**Relative density** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**Vapour density** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**Oxidising properties** : Solution 1 Not available.  
 Solution 2 Not available.  
 Solution 3 Not available.  
 Wash Buffer (2X) Not available.  
 Nuclease Removal Buffer 1X Not available.

**Particle characteristics**

**Median particle size** : Solution 1 Not applicable.  
 Solution 2 Not applicable.  
 Solution 3 Not applicable.  
 Wash Buffer (2X) Not applicable.  
 Nuclease Removal Buffer 1X Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** : Solution 1 No specific test data related to reactivity available for this product or its ingredients.  
 Solution 2 No specific test data related to reactivity available for this product or its ingredients.  
 Solution 3 No specific test data related to reactivity available for this product or its ingredients.  
 Wash Buffer (2X) No specific test data related to reactivity available for this product or its ingredients.  
 Nuclease Removal Buffer 1X No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Solution 1 The product is stable.  
 Solution 2 The product is stable.  
 Solution 3 The product is stable.  
 Wash Buffer (2X) The product is stable.  
 Nuclease Removal Buffer 1X The product is stable.

**10.3 Possibility of hazardous reactions** : Solution 1 Under normal conditions of storage and use, hazardous reactions will not occur.  
 Solution 2 Under normal conditions of storage and use, hazardous reactions will not occur.  
 Solution 3 Under normal conditions of storage and use, hazardous reactions will not occur.  
 Wash Buffer (2X) Under normal conditions of storage and use, hazardous reactions will not occur.  
 Nuclease Removal Buffer 1X Under normal conditions of storage and use, hazardous reactions will not occur.

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 10: Stability and reactivity**

<b>10.4 Conditions to avoid</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No specific data. No specific data. No specific data. No specific data. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>10.5 Incompatible materials</b>	: Solution 1 Solution 2  Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: acids  May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials:  oxidising materials
<b>10.6 Hazardous decomposition products</b>	: Solution 1  Solution 2  Solution 3  Wash Buffer (2X)  Nuclease Removal Buffer 1X	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>Solution 2</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>Solution 3</b> acetic acid	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	11000 mg/m <sup>3</sup> 1060 mg/kg 3310 mg/kg	4 hours - -
<b>Wash Buffer (2X)</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>Nuclease Removal Buffer 1X</b> Propan-2-ol acetic acid	LD50 Dermal LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rabbit Rat Rat Rabbit Rat	12800 mg/kg 5000 mg/kg 11000 mg/m <sup>3</sup> 1060 mg/kg 3310 mg/kg	- - 4 hours - -

Acute toxicity estimates

StrataPrep Plasmid Miniprep Kit, Part Number 400761

**SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Solution 2</b> Solution 2 Sodium dodecyl sulphate	128800 1288	N/A N/A	N/A N/A	N/A N/A	150 1.5
<b>Solution 3</b> Solution 3 Guanidinium thiocyanate acetic acid	1057.1 500 3310	2325.6 1100 N/A	N/A N/A N/A	N/A N/A N/A	3.2 1.5 N/A
<b>Wash Buffer (2X)</b> Sodium chloride	3000	N/A	N/A	N/A	N/A
<b>Nuclease Removal Buffer 1X</b> Nuclease Removal Buffer 1X Propan-2-ol Guanidinium thiocyanate acetic acid	2118.6 5000 500 3310	4661 12800 1100 N/A	N/A N/A N/A N/A	N/A 72.2 N/A N/A	6.4 N/A 1.5 N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Solution 2</b> Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
Sodium hydroxide	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
Skin - Severe irritant	Rabbit	-	24 hours 500 mg	-	
	Rabbit	-	525 mg	-	
<b>Solution 3</b> acetic acid	Skin - Severe irritant	Rabbit	-	525 mg	-
<b>Wash Buffer (2X)</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Nuclease Removal Buffer 1X</b> Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Severe irritant	Rabbit	-	525 mg	-
acetic acid					

## SECTION 11: Toxicological information

### 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)

Product/ingredient name	Category	Route of exposure	Target organs
<b>Solution 2</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>Nuclease Removal Buffer 1X</b> Propan-2-ol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Solution 1	Not available.
Solution 2	Routes of entry anticipated: Oral, Dermal, Inhalation.
Solution 3	Routes of entry anticipated: Oral, Dermal, Inhalation.
Wash Buffer (2X)	Not available.
Nuclease Removal Buffer 1X	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Inhalation</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if inhaled. No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> Solution 1 Solution 2 Solution 3  Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. Harmful if swallowed. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Causes severe burns. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Eye contact</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. Causes serious eye damage. Causes serious eye irritation. No known significant effects or critical hazards. Causes serious eye irritation.

## SECTION 11: Toxicological information

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

<b>Inhalation</b>	:	Solution 1	No specific data.
		Solution 2	No specific data.
		Solution 3	No specific data.
		Wash Buffer (2X)	No specific data.
		Nuclease Removal Buffer 1X	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Ingestion</b>	:	Solution 1	No specific data.
		Solution 2	Adverse symptoms may include the following: stomach pains
		Solution 3	Adverse symptoms may include the following: stomach pains
		Wash Buffer (2X)	No specific data.
		Nuclease Removal Buffer 1X	Adverse symptoms may include the following:  stomach pains
<b>Skin contact</b>	:	Solution 1	No specific data.
		Solution 2	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		Solution 3	Adverse symptoms may include the following: irritation redness
		Wash Buffer (2X)	No specific data.
		Nuclease Removal Buffer 1X	No specific data.
<b>Eye contact</b>	:	Solution 1	No specific data.
		Solution 2	Adverse symptoms may include the following: pain watering redness
		Solution 3	Adverse symptoms may include the following: pain or irritation watering redness
		Wash Buffer (2X)	No specific data.
		Nuclease Removal Buffer 1X	Adverse symptoms may include the following:  pain or irritation watering redness

### 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

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 11: Toxicological information**

<b>General</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: Solution 1 Solution 2 Solution 3 Wash Buffer (2X) Nuclease Removal Buffer 1X	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>Solution 2</b> Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
Sodium hydroxide	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water Acute LC50 125 ppm Fresh water	Fish - Pimephales promelas Fish - Gambusia affinis - Adult	42 days 96 hours
<b>Solution 3</b> acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water Acute LC50 75000 µg/l Fresh water	Crustaceans - Artemia salina Fish - Lepomis macrochirus	48 hours 96 hours
<b>Wash Buffer (2X)</b> Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours

StrataPrep Plasmid Miniprep Kit, Part Number 400761

**SECTION 12: Ecological information**

<b>Nuclease Removal Buffer 1X</b>	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
Propan-2-ol  acetic acid	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Solution 2</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Solution 2</b> Sodium dodecyl sulphate	-	-	Readily
Sodium hydroxide	-	-	Readily
<b>Solution 3</b> Guanidinium thiocyanate	-	-	Inherent
acetic acid	-	-	Readily
<b>Nuclease Removal Buffer 1X</b> Propan-2-ol	-	-	Readily
Guanidinium thiocyanate	-	-	Inherent
acetic acid	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Solution 2</b> Sodium dodecyl sulphate	-2.03	-	low
<b>Solution 3</b> acetic acid	-0.17	3.16	low
<b>Nuclease Removal Buffer 1X</b> Propan-2-ol	0.05	-	low
acetic acid	-0.17	3.16	low

**12.4 Mobility in soil**

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

**Mobility** : Not available.

## SECTION 12: Ecological information

### 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** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

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

**Special precautions** : This material and its container must be disposed of in a safe way. 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 spilled 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>	UN3316	UN3316	UN3316
<b>14.2 UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 
<b>14.4 Packing group</b>	II	II	II
<b>14.5 Environmental hazards</b>	No.	No.	No.

### Additional information

**ADR/RID** : **Hazard identification number** 90  
**Limited quantity** See SP 251  
**Special provisions** 251, 340, 671  
**Tunnel code** (E)

**IMDG** : **Emergency schedules** F-A, \_S-P\_  
**Special provisions** 251, 340

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960.  
 Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.  
**Special provisions** A44, A163

StrataPrep Plasmid Miniprep Kit, Part Number 400761

## SECTION 14: Transport 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**

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

<b>Label</b>	:	Solution 1	Not applicable.
		Solution 2	Not applicable.
		Solution 3	Not applicable.
		Wash Buffer (2X)	Not applicable.
		Nuclease Removal Buffer 1X	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

<b>Category</b>
<b>Nuclease Removal Buffer 1X</b>
P5c

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

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 15: Regulatory information**

<b>Australia</b>	: Not determined.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: Not determined.

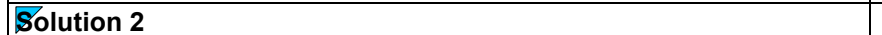
**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

 Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: 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
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**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
<b> Solution 2</b> Skin Corr. 1, H314	On basis of test data
<b>Solution 3</b> Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method Calculation method
<b>Nuclease Removal Buffer 1X</b> Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	On basis of test data Calculation method Calculation method

**Full text of abbreviated H statements**

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 16: Other information**

<p><b>Solution 2</b>                  H228                  H302                  H314                  H315                  H318                  H332                  H335                  H400                  H412</p>	<p>Flammable solid.                  Harmful if swallowed.                  Causes severe skin burns and eye damage.                  Causes skin irritation.                  Causes serious eye damage.                  Harmful if inhaled.                  May cause respiratory irritation.                  Very toxic to aquatic life.                  Harmful to aquatic life with long lasting effects.</p>
<p><b>Solution 3</b>                  H226                  H302                  H312                  H314                  H315                  H319                  H332                  H412                  EUH032</p>	<p>Flammable liquid and vapour.                  Harmful if swallowed.                  Harmful in contact with skin.                  Causes severe skin burns and eye damage.                  Causes skin irritation.                  Causes serious eye irritation.                  Harmful if inhaled.                  Harmful to aquatic life with long lasting effects.                  Contact with acids liberates very toxic gas.</p>
<p><b>Wash Buffer (2X)</b>                  H319</p>	<p>Causes serious eye irritation.</p>
<p><b>Nuclease Removal Buffer 1X</b>                  H225                  H226                  H302                  H312                  H314                  H319                  H332                  H336                  H412                  EUH032</p>	<p>Highly flammable liquid and vapour.                  Flammable liquid and vapour.                  Harmful if swallowed.                  Harmful in contact with skin.                  Causes severe skin burns and eye damage.                  Causes serious eye irritation.                  Harmful if inhaled.                  May cause drowsiness or dizziness.                  Harmful to aquatic life with long lasting effects.                  Contact with acids liberates very toxic gas.</p>

[Full text of classifications \[CLP/GHS\]](#)

<p><b>Solution 2</b>                  Acute Tox. 4                  Aquatic Acute 1                  Aquatic Chronic 3                  Eye Dam. 1                  Flam. Sol. 2                  Skin Corr. 1                  Skin Corr. 1A                  Skin Irrit. 2                  STOT SE 3</p>	<p>ACUTE TOXICITY - Category 4                  SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  FLAMMABLE SOLIDS - Category 2                  SKIN CORROSION/IRRITATION - Category 1                  SKIN CORROSION/IRRITATION - Category 1A                  SKIN CORROSION/IRRITATION - Category 2                  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3</p>
<p><b>Solution 3</b>                  Acute Tox. 4                  Aquatic Chronic 3                  Eye Irrit. 2                  Flam. Liq. 3                  Skin Corr. 1A                  Skin Irrit. 2</p>	<p>ACUTE TOXICITY - Category 4                  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  FLAMMABLE LIQUIDS - Category 3                  SKIN CORROSION/IRRITATION - Category 1A                  SKIN CORROSION/IRRITATION - Category 2</p>
<p><b>Wash Buffer (2X)</b>                  Eye Irrit. 2</p>	<p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p>
<p><b>Nuclease Removal Buffer 1X</b>                  Acute Tox. 4</p>	<p>ACUTE TOXICITY - Category 4</p>

**StrataPrep Plasmid Miniprep Kit, Part Number 400761**

**SECTION 16: Other information**

Aquatic Chronic 3 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1A STOT SE 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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