

SAFETY DATA SHEET



StrataPrep Plasmid Miniprep Kit, Part Number 400763

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

1.1 Product identifier

Product name : StrataPrep Plasmid Miniprep Kit, Part Number 400763
Part No. (Kit) : 400763
Part No. : Solution 1 400763-13
Solution 2 400763-14
Solution 3 400763-15
Wash Buffer 400763-16
Nuclease Removal Buffer 400763-17

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

| Identified uses | |
|-------------------------|--------|
| Analytical reagent. | |
| Solution 1 | 30 ml |
| Solution 2 | 30 ml |
| Solution 3 | 40 ml |
| Wash Buffer | 125 ml |
| Nuclease Removal Buffer | 200 ml |

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Solution 1 Mixture
Solution 2 Mixture
Solution 3 Mixture
Wash Buffer Mixture
Nuclease Removal Buffer Mixture

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

Solution 2

H314 SKIN CORROSION/IRRITATION - Category 1

Solution 3

H302 ACUTE TOXICITY (oral) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Date of issue/Date of revision : 22/05/2017

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 2: Hazards identification

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Nuclease Removal Buffer

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

Ingredients of unknown toxicity :

| | |
|-------------------------|---|
| Solution 2 | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% |
| Solution 3 | 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% |
| Wash Buffer | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% |
| Nuclease Removal 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% |

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



Signal word

: Solution 1 No signal word.
 Solution 2 Danger
 Solution 3 Warning
 Wash Buffer No signal word.
 Nuclease Removal Buffer 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.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H412 - Harmful to aquatic life with long lasting effects.
 Wash Buffer No known significant effects or critical hazards.
 Nuclease Removal Buffer H225 - Highly flammable liquid and vapour.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.

Precautionary statements

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 2: Hazards identification

| | | |
|------------------------------------|--|--|
| Prevention | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not applicable. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. Not applicable. P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. |
| Response | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not applicable. P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Not applicable. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| Storage | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not applicable. P405 - Store locked up. Not applicable. Not applicable. P235 - Keep cool. |
| Disposal | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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. |
| Hazardous ingredients | : Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | - Sodium dodecyl sulphate - sodium hydroxide - salts of thiocyanic acid Not applicable. - propan-2-ol |
| Supplemental label elements | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not applicable. Not applicable. Not applicable. Safety data sheet available on request. Not applicable. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 2: Hazards identification

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

| | |
|-------------------------|-----------------|
| Solution 1 | Not applicable. |
| Solution 2 | Not applicable. |
| Solution 3 | Not applicable. |
| Wash Buffer | Not applicable. |
| Nuclease Removal Buffer | Not applicable. |

Special packaging requirements

Tactile warning of danger :

| | |
|-------------------------|-----------------|
| Solution 1 | Not applicable. |
| Solution 2 | Not applicable. |
| Solution 3 | Not applicable. |
| Wash Buffer | Not applicable. |
| Nuclease Removal Buffer | Not applicable. |

2.3 Other hazards

Other hazards which do not result in classification :

| | |
|-------------------------|--------------------------------------|
| Solution 1 | None known. |
| Solution 2 | None known. |
| Solution 3 | Causes severe digestive tract burns. |
| Wash Buffer | None known. |
| Nuclease Removal Buffer | Causes severe digestive tract burns. |

SECTION 3: Composition/information on ingredients

3.1 Substances :

| | |
|-------------------------|---------|
| Solution 1 | Mixture |
| Solution 2 | Mixture |
| Solution 3 | Mixture |
| Wash Buffer | Mixture |
| Nuclease Removal Buffer | Mixture |

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|---|--|-----------|--|---------|
| Solution 2 Sodium dodecyl sulphate | EC: 205-788-1 CAS: 151-21-3 | ≤3 | Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 3, H311 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] |
| Solution 3 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 EUH032 | [1] |
| acetic acid | EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6 | ≥10 - <25 | Flam. Liq. 3, H226 Skin Corr. 1A, H314 | [1] [2] |
| Wash Buffer Sodium chloride | EC: 231-598-3 CAS: 7647-14-5 | ≤3 | Eye Irrit. 2, H319 | [1] |
| Nuclease Removal Buffer Propan-2-ol | EC: 200-661-7 CAS: 67-63-0 | ≥50 - ≤75 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [1] [2] |

Date of issue/Date of revision : 22/05/2017

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 3: Composition/information on ingredients

| | | | | |
|-------------------------|--|-----------|--|---------|
| Guanidinium thiocyanate | Index: 603-117-00-0 EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3 | ≥10 - <25 | STOT SE 3, H336 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 See Section 16 for the full text of the H statements declared above. | [1] [2] |

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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- : 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
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
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.

Inhalation

- : Solution 1
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- 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 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.

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 4: First aid measures

| | |
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| 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 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Nuclease Removal Buffer | 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. Wash skin thoroughly with soap and water or use recognised skin cleanser. 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 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Nuclease Removal Buffer | Wash skin thoroughly with soap and water or use recognised skin cleanser. 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

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| Ingestion | : Solution 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. |
| | Solution 2 | Get medical attention immediately. Call a poison center or physician. 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. 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. 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 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 | 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. |
| | Nuclease Removal 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 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. |

SECTION 4: First aid measures

| | | |
|-----------------------------------|--------------------------------|---|
| Protection of first-aiders | 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 | No action shall be taken involving any personal risk or without suitable training. |
| | Nuclease Removal Buffer | 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

| | | |
|---------------------|--------------------------------|--|
| Eye contact | Solution 1 | No known significant effects or critical hazards. |
| | Solution 2 | Causes serious eye damage. |
| | Solution 3 | Causes serious eye irritation. |
| | Wash Buffer | No known significant effects or critical hazards. |
| | Nuclease Removal Buffer | Causes serious eye irritation. |
| Inhalation | Solution 1 | No known significant effects or critical hazards. |
| | Solution 2 | No known significant effects or critical hazards. |
| | Solution 3 | Harmful if inhaled. |
| | Wash Buffer | No known significant effects or critical hazards. |
| | Nuclease Removal Buffer | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | Solution 1 | No known significant effects or critical hazards. |
| | Solution 2 | Causes severe burns. Defatting to the skin. |
| | Solution 3 | Causes skin irritation. |
| | Wash Buffer | No known significant effects or critical hazards. |
| | Nuclease Removal Buffer | Defatting to the skin. May cause skin dryness and irritation. |
| Ingestion | Solution 1 | No known significant effects or critical hazards. |
| | Solution 2 | No known significant effects or critical hazards. |
| | Solution 3 | Severely corrosive to the digestive tract. Causes severe burns. Harmful if swallowed. |
| | Wash Buffer | No known significant effects or critical hazards. |
| | Nuclease Removal Buffer | Severely corrosive to the digestive tract. Causes severe burns. Can cause central nervous system (CNS) depression. |

Over-exposure signs/symptoms

| | | |
|--------------------|-------------------|---|
| Eye contact | 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 |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 4: First aid measures

| | | |
|---------------------|-------------------------|---|
| | Wash Buffer | redness No specific data. |
| | Nuclease Removal Buffer | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Solution 1 | No specific data. |
| | Solution 2 | No specific data. |
| | Solution 3 | No specific data. |
| | Wash Buffer | No specific data. |
| | Nuclease Removal Buffer | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Solution 1 | No specific data. |
| | Solution 2 | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| | Solution 3 | Adverse symptoms may include the following: irritation redness |
| | Wash Buffer | No specific data. |
| | Nuclease Removal Buffer | Adverse symptoms may include the following: irritation dryness cracking |
| Ingestion | : 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 | No specific data. |
| | Nuclease Removal Buffer | Adverse symptoms may include the following: stomach pains |

4.3 Indication of any immediate medical attention and special treatment needed

| | | |
|----------------------------|-------------------------|---|
| Notes to physician | : 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 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Nuclease Removal Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : Solution 1 | No specific treatment. |
| | Solution 2 | No specific treatment. |
| | Solution 3 | No specific treatment. |
| | Wash Buffer | No specific treatment. |
| | Nuclease Removal Buffer | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

| | | |
|--|-------------------------|---|
| Hazards from the substance or mixture | : 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 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Nuclease Removal Buffer | Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. |
| Hazardous combustion products | : 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 | Decomposition products may include the following materials: halogenated compounds metal oxide/oxides |
| | Nuclease Removal Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides |

5.3 Advice for firefighters

| | | |
|--|--------------|---|
| Special precautions for fire-fighters | : 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 |

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

| | | |
|-------------------------|--|---|
| Wash Buffer | | taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Nuclease Removal 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| : 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 | | 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 | | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|--------------|---|
| For non-emergency personnel | : 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. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 6: Accidental release measures

| | | |
|---------------------------------|--------------------------------------|---|
| | Wash 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. |
| | Nuclease Removal 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : Solution 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". |
| | 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 | 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 | 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 |
| 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 | | 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 | | 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

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 6: Accidental release measures

| | | |
|--------------------------------|-------------------------|--|
| 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. Move containers from spill area. 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. 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 place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Wash 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. |
| | Nuclease Removal Buffer | 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

| | | |
|----------------------------|-------------------------|--|
| Protective measures | : 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 | Put on appropriate personal protective equipment (see Section 8). |
| | Nuclease Removal 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. Use only with adequate ventilation. Wear appropriate respirator when |

SECTION 7: Handling and storage

Advice on general occupational hygiene

| | | |
|--|-------------------------|---|
| | | 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. |
| | 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 | 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 | 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. |
| | 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. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 7: Handling and storage

| | |
|-------------------------|--|
| 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. |
| Wash Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
| Nuclease Removal Buffer | 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 oxidizing 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. |

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---------------------------------|-------------------------|
| Nuclease Removal Buffer P5c: Flammable liquids 2 and 3 not falling under P5a or P5b | 5000 | 50000 |

7.3 Specific end use(s)

| | | |
|---|--|---|
| Recommendations | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. |
| Industrial sector specific solutions | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---|--|
| Solution 2 Sodium hydroxide | EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2 mg/m ³ 15 minutes. |
| Solution 3 acetic acid | EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours. |
| Nuclease Removal Buffer Propan-2-ol | EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours. |
| acetic acid | EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

SECTION 8: Exposure controls/personal protection

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- 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

9.1 Information on basic physical and chemical properties

Appearance

| | | |
|------------------------|-------------------------|----------------|
| Physical state | : Solution 1 | Liquid. |
| | Solution 2 | Liquid. |
| | Solution 3 | Liquid. |
| | Wash Buffer | Liquid. |
| | Nuclease Removal Buffer | Liquid. |
| Colour | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |
| Odour | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |
| Odour threshold | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 9: Physical and chemical properties

| | | |
|---|-------------------------|------------------------|
| pH | : Solution 1 | 7.5 |
| | Solution 2 | >12 |
| | Solution 3 | 4.4 |
| | Wash Buffer | 7.5 |
| | Nuclease Removal Buffer | 4.4 |
| Melting point/freezing point | : Solution 1 | 0°C |
| | Solution 2 | 0°C |
| | Solution 3 | Not available. |
| | Wash Buffer | 0°C |
| | Nuclease Removal Buffer | Not available. |
| Initial boiling point and boiling range | : Solution 1 | 100°C |
| | Solution 2 | 100°C |
| | Solution 3 | Not available. |
| | Wash Buffer | 100°C |
| | Nuclease Removal Buffer | Not available. |
| Flash point | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Closed cup: 12 to 23°C |
| Evaporation rate | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |
| Flammability (solid, gas) | : Solution 1 | Not applicable. |
| | Solution 2 | Not applicable. |
| | Solution 3 | Not applicable. |
| | Wash Buffer | Not applicable. |
| | Nuclease Removal Buffer | Not applicable. |
| Upper/lower flammability or explosive limits | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |
| Vapour pressure | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |
| Vapour density | : Solution 1 | Not available. |
| | Solution 2 | Not available. |
| | Solution 3 | Not available. |
| | Wash Buffer | Not available. |
| | Nuclease Removal Buffer | Not available. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 9: Physical and chemical properties

| | | |
|---|--|---|
| Relative density | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Solubility(ies) | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Auto-ignition temperature | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Decomposition temperature | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Viscosity | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Explosive properties | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |
| Oxidising properties | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | Not available. Not available. Not available. Not available. Not available. |

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 | No specific test data related to reactivity available for this product or its ingredients. |
| | Nuclease Removal Buffer | 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 | The product is stable. |
| | Nuclease Removal Buffer | 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 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Nuclease Removal Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : Solution 1 | No specific data. |
| | Solution 2 | No specific data. |
| | Solution 3 | No specific data. |
| | Wash Buffer | No specific data. |
| | Nuclease Removal Buffer | 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. |
| 10.5 Incompatible materials | : Solution 1 | May react or be incompatible with oxidising materials. |
| | Solution 2 | Reactive or incompatible with the following materials: acids |
| | Solution 3 | May react or be incompatible with oxidising materials. |
| | Wash Buffer | May react or be incompatible with oxidising materials. |
| | Nuclease Removal Buffer | Reactive or incompatible with the following materials: oxidizing materials |
| 10.6 Hazardous decomposition products | : Solution 1 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Solution 2 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Solution 3 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Wash Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Nuclease Removal Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|--|----------------------|---|-------------------|
| Solution 2 Sodium dodecyl sulphate | LD50 Dermal LD50 Oral | Rabbit Rat | 580 mg/kg 1288 mg/kg | - - |
| Solution 3 acetic acid | LC50 Inhalation Vapour LD50 Dermal LD50 Oral | Rat Rabbit Rat | 11000 mg/m ³ 1060 mg/kg 3310 mg/kg | 4 hours - - |
| Wash Buffer Sodium chloride | LD50 Oral | Rat | 3000 mg/kg | - |
| Nuclease Removal Buffer Propan-2-ol | LD50 Dermal LD50 Oral | Rabbit Rat | 12800 mg/kg 5000 mg/kg | - - |
| acetic acid | LC50 Inhalation Vapour LD50 Dermal LD50 Oral | Rat Rabbit Rat | 11000 mg/m ³ 1060 mg/kg 3310 mg/kg | 4 hours - - |

Acute toxicity estimates

| Route | ATE value |
|--|--|
| Solution 2 Oral Dermal | 128800 mg/kg 58000 mg/kg |
| Solution 3 Oral Dermal Inhalation (dusts and mists) | 1057.1 mg/kg 2325.6 mg/kg 3.171 mg/l |
| Nuclease Removal Buffer Oral Dermal Inhalation (dusts and mists) | 2118.6 mg/kg 4661 mg/kg 6.356 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--|------------------|--------|--|-------------|
| Solution 2 Sodium dodecyl sulphate | Eyes - Mild irritant | Rabbit | - | 250 Micrograms | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Skin - Mild irritant | Guinea pig | - | 24 hours 25 milligrams | - |
| | Skin - Moderate irritant | Mouse | - | 24 hours 25 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 50 milligrams | - |
| Sodium hydroxide | Skin - Moderate irritant | Rabbit | - | 24 hours 25 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 50 Micrograms | - |
| | Eyes - Severe irritant Eyes - Severe irritant | Rabbit Rabbit | - - | 1 Percent 0.5 minutes 1 milligrams | - - |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 11: Toxicological information

| | | | | | |
|---|--------------------------|--------|---|-------------------------|---|
| Solution 3 acetic acid | Skin - Severe irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Severe irritant | Rabbit | - | 525 milligrams | - |
| Wash Buffer Sodium chloride | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Nuclease Removal Buffer Propan-2-ol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| acetic acid | Skin - Severe irritant | Rabbit | - | 525 milligrams | - |

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| Solution 2 Sodium dodecyl sulphate | Category 3 | Not applicable. | Respiratory tract irritation |
| Nuclease Removal Buffer Propan-2-ol | Category 3 | Not applicable. | 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 Not available.
 Nuclease Removal Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation

: Solution 1 No known significant effects or critical hazards.
 Solution 2 No known significant effects or critical hazards.
 Solution 3 Harmful if inhaled.
 Wash Buffer No known significant effects or critical hazards.
 Nuclease Removal Buffer Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Ingestion

: Solution 1 No known significant effects or critical hazards.
 Solution 2 No known significant effects or critical hazards.
 Solution 3 Severely corrosive to the digestive tract. Causes severe burns. Harmful if swallowed.
 Wash Buffer No known significant effects or critical hazards.
 Nuclease Removal Buffer Severely corrosive to the digestive tract. Causes severe burns. Can cause central nervous system (CNS)

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 11: Toxicological information

| | | | |
|---------------------|---|-------------------------|---|
| Skin contact | : | Solution 1 | depression. |
| | | Solution 2 | No known significant effects or critical hazards. |
| | | Solution 3 | Causes severe burns. Defatting to the skin. |
| | | Wash Buffer | Causes skin irritation. |
| | | Nuclease Removal Buffer | No known significant effects or critical hazards. |
| Eye contact | : | Solution 1 | Defatting to the skin. May cause skin dryness and irritation. |
| | | Solution 2 | No known significant effects or critical hazards. |
| | | Solution 3 | Causes serious eye damage. |
| | | Wash Buffer | Causes serious eye irritation. |
| | | Nuclease Removal Buffer | No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | | |
|---------------------|---|-------------------------|---|
| Inhalation | : | Solution 1 | No specific data. |
| | | Solution 2 | No specific data. |
| | | Solution 3 | No specific data. |
| | | Wash Buffer | No specific data. |
| | | Nuclease Removal Buffer | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Ingestion | : | 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 | No specific data. |
| | | Nuclease Removal Buffer | Adverse symptoms may include the following: stomach pains |
| Skin contact | : | Solution 1 | No specific data. |
| | | Solution 2 | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| | | Solution 3 | Adverse symptoms may include the following: irritation redness |
| | | Wash Buffer | No specific data. |
| | | Nuclease Removal Buffer | Adverse symptoms may include the following: irritation dryness cracking |
| Eye contact | : | 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 | No specific data. |
| | | Nuclease Removal Buffer | 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

Date of issue/Date of revision : 22/05/2017

23/30

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 11: Toxicological information

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

| | | |
|------------------------------|--|---|
| General | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | No known significant effects or critical hazards. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. No known significant effects or critical hazards. No known significant effects or critical hazards. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| Carcinogenicity | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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. |
| Mutagenicity | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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. |
| Teratogenicity | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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. |
| Developmental effects | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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. |
| Fertility effects | : Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer | 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 |
|--|-------------------------------------|--------------------------------------|----------|
| Solution 2 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 | 21 days |

Date of issue/Date of revision : 22/05/2017

24/30

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 12: Ecological information

| | | | |
|---|--|---|----------------------------------|
| Sodium hydroxide | Chronic NOEC 3.2 mg/l Fresh water | ramosa - Neonate Daphnia - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC >1357 µg/l Fresh water Acute EC50 40.38 mg/l Fresh water | Fish - Pimephales promelas Crustaceans - Ceriodaphnia dubia - Neonate | 42 days 48 hours |
| Solution 3 acetic acid | Acute LC50 125 ppm Fresh water | Fish - Gambusia affinis - Adult | 96 hours |
| | Acute EC50 73400 µg/l Fresh water Acute EC50 65000 µg/l Fresh water | Algae - Navicula seminulum Daphnia - Daphnia magna - Neonate | 96 hours 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 |
| Wash Buffer 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 Acute LC50 1.56 g/L Fresh water | Aquatic plants - Lemna minor Daphnia - Daphnia magna | 96 hours 48 hours |
| | Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water | Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours 3 weeks |
| | Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water | Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult | 96 hours 21 days 8 weeks |
| Nuclease Removal Buffer Propan-2-ol | Acute EC50 10100 mg/l Fresh water Acute LC50 1400000 to 1950000 µg/l Marine water | Daphnia - Daphnia magna Crustaceans - Crangon crangon | 48 hours 48 hours |
| | Acute LC50 4200 mg/l Fresh water Acute EC50 73400 µg/l Fresh water Acute EC50 65000 µg/l Fresh water | Fish - Rasbora heteromorpha Algae - Navicula seminulum Daphnia - Daphnia magna - Neonate | 96 hours 96 hours 48 hours |
| acetic acid | Acute LC50 32 mg/l Marine water Acute LC50 75000 µg/l Fresh water | Crustaceans - Artemia salina Fish - Lepomis macrochirus | 48 hours 96 hours |

12.2 Persistence and degradability

Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|--------------------|
| Solution 2 Sodium dodecyl sulphate Sodium hydroxide | - - | - - | Readily Readily |
| Solution 3 acetic acid | - | - | Readily |
| Nuclease Removal Buffer acetic acid | - | - | Readily |

12.3 Bioaccumulative potential

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 12: Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|------|-----------|
| Solution 2 Sodium dodecyl sulphate | -2.03 | - | low |
| Solution 3 acetic acid | -0.17 | 3.16 | low |
| Nuclease Removal Buffer Propan-2-ol | 0.05 | - | low |
| acetic acid | -0.17 | 3.16 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information




| | ADR/RID | IMDG | IATA |
|-------------------------------------|--------------|--------------|--------------|
| 14.1 UN number | UN3316 | UN3316 | UN3316 |
| 14.2 UN proper shipping name | CHEMICAL KIT | CHEMICAL KIT | Chemical kit |
| | | | |

Date of issue/Date of revision : 22/05/2017

26/30

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 14: Transport information

| | | | |
|---------------------------------|--|--|--|
| 14.3 Transport hazard class(es) | 9  | 9  | 9  |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | No. | No. | No. |

Additional information

ADR/RID

: **Hazard identification number**

90

Limited quantity

See SP 251

Special provisions

251, 340

Tunnel code

(E)

IMDG

: **Emergency schedules (EmS)**

F-A, _S-P_

Special provisions

251, 340

IATA

: **Passenger and Cargo Aircraft** Quantity limitation: 10 kg

Packaging instructions: 960

Cargo Aircraft Only Quantity limitation: 10 kg

Packaging instructions: 960

Limited Quantities - Passenger Aircraft Quantity limitation: 1 kg

Packaging instructions: Y960

Special provisions

A44, A163

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 Annex II of Marpol and the IBC Code

: 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.

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 15: Regulatory information

| | | |
|---|-------------------------|-----------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Solution 1 | Not applicable. |
| | Solution 2 | Not applicable. |
| | Solution 3 | Not applicable. |
| | Wash Buffer | Not applicable. |
| | Nuclease Removal Buffer | Not applicable. |

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Nuclease Removal Buffer

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

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

| | |
|--------------------------|---|
| Australia | : Not determined. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : Not determined. |
| Malaysia | : Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : All components are listed or exempted. |
| Viet Nam | : Not determined. |

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 15: Regulatory information

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.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|--|
| Solution 2 Skin Corr. 1, H314 | On basis of test data |
| Solution 3 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 |
| Nuclease Removal Buffer Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | Expert judgment Calculation method Calculation method |

Full text of abbreviated H statements

| | |
|---|---|
| Solution 2 H228 H302 H311 H314 H315 H318 H335 H400 H412 | Flammable solid. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. |
| Solution 3 H226 H302 H312 H314 H315 H319 H332 H412 | 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. |
| Wash Buffer H319 | Causes serious eye irritation. |
| Nuclease Removal Buffer H225 H226 H302 H312 | Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. |

Date of issue/Date of revision : 22/05/2017

29/30

StrataPrep Plasmid Miniprep Kit, Part Number 400763

SECTION 16: Other information

| | |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

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

| | |
|--|--|
| <p>Solution 2 Acute Tox. 3, H311 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Sol. 2, H228 Skin Corr. 1, H314 Skin Corr. 1A, H314 Skin Irrit. 2, H315 STOT SE 3, H335</p> <p>Solution 3 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH032 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Skin Corr. 1A, H314 Skin Irrit. 2, H315</p> <p>Wash Buffer Eye Irrit. 2, H319</p> <p>Nuclease Removal Buffer Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH032 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Corr. 1A, H314 STOT SE 3, H336</p> | <p>ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (oral) - 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 (Respiratory tract irritation) - Category 3</p> <p>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Contact with acids liberates very toxic gas. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 2</p> <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p> <p>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Contact with acids liberates very toxic gas. 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 (Narcotic effects) - Category 3</p> |
|--|--|

Date of issue/ Date of revision : 22/05/2017

Date of previous issue : No previous validation.

Version : 1

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