

SAFETY DATA SHEET



PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

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

1.1 Product identifier

Product name : PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

CAS number : 2X PCR Master Mix Not applicable.
10X PCR Primer Mix Not applicable.
60 mM EDTA Not applicable.
10X Ddel Buffer Not applicable.
10X NlaIII/HaeIII Buffer Not applicable.
100X BSA Not applicable.
10X Ddel Restriction Enzyme Not applicable.
10X NlaIII Restriction Enzyme Not applicable.
10X HaeIII Restriction Enzyme Not applicable.
Positive Control Salmon DNA Not applicable.
Nuclease Free Water 7732-18-5

Part no. (chemical kit) : 5500-0001

Part no. : 2X PCR Master Mix 5190-2345
10X PCR Primer Mix 5190-2346
60 mM EDTA 5190-2354
10X Ddel Buffer 5190-2348
10X NlaIII/HaeIII Buffer 5190-2347
100X BSA 5190-2352
10X Ddel Restriction Enzyme 5190-2350
10X NlaIII Restriction Enzyme 5190-2351
10X HaeIII Restriction Enzyme 5190-2349
Positive Control Salmon DNA 5190-2353
Nuclease Free Water 5190-2355

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

Material uses : Analytical reagent.

| | |
|-------------------------------|---------------------------|
| 2X PCR Master Mix | 1.25 ml |
| 10X PCR Primer Mix | 0.25 ml |
| 60 mM EDTA | 0.3 ml |
| 10X Ddel Buffer | 0.05 ml |
| 10X NlaIII/HaeIII Buffer | 0.1 ml |
| 100X BSA | 0.1 ml |
| 10X Ddel Restriction Enzyme | 0.05 ml |
| 10X NlaIII Restriction Enzyme | 0.05 ml |
| 10X HaeIII Restriction Enzyme | 0.05 ml |
| Positive Control Salmon DNA | 0.01 ml (250 ng/μl 10 μl) |
| Nuclease Free Water | 0.11 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

PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

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

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 | : 2X PCR Master Mix | Mixture |
| | 10X PCR Primer Mix | Mixture |
| | 60 mM EDTA | Mixture |
| | 10X Ddel Buffer | Mixture |
| | 10X NlaIII/HaeIII Buffer | Mixture |
| | 100X BSA | Mixture |
| | 10X Ddel Restriction Enzyme | Mixture |
| | 10X NlaIII Restriction Enzyme | Mixture |
| | 10X HaeIII Restriction Enzyme | Mixture |
| | Positive Control Salmon DNA | Mixture |
| | Nuclease Free Water | Mono-constituent substance |

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

10X Ddel Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

| | | |
|------------------------------------|--|--|
| Ingredients of unknown toxicity | : 2X PCR Master Mix | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| | 10X Ddel Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30% |
| | 10X NlaIII/HaeIII Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 10 - 30% |
| | | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30% |
| | | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% |
| | 100X BSA | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% |
| | | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| | | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% |
| | 10X Ddel Restriction Enzyme | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% |
| | 10X NlaIII Restriction Enzyme | 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: 30 - 60% | |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% | |
| Ingredients of unknown ecotoxicity | : 10X NlaIII/HaeIII Buffer | Contains 3.6% of components with unknown hazards to the aquatic environment |
| | 100X BSA | Contains 1% of components with unknown hazards to the aquatic environment |

PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

| | | |
|---------------------------------|---|--|
| Signal word | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. |
| Hazard statements | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. 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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Precautionary statements | | |
| Prevention | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | Not applicable. Not applicable. Not applicable. P273 - Avoid release to the environment. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Response | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |

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SECTION 2: Hazards identification

| | | |
|------------------------------------|--------------------------|--|
| | Enzyme | |
| | 10X HaeIII Restriction | Not applicable. |
| | Enzyme | |
| | Positive Control Salmon | Not applicable. |
| | DNA | |
| | Nuclease Free Water | Not applicable. |
| Storage | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction | Not applicable. |
| | Enzyme | |
| | 10X NlaIII Restriction | Not applicable. |
| | Enzyme | |
| | 10X HaeIII Restriction | Not applicable. |
| | Enzyme | |
| | Positive Control Salmon | Not applicable. |
| | DNA | |
| | Nuclease Free Water | Not applicable. |
| Disposal | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction | Not applicable. |
| | Enzyme | |
| | 10X NlaIII Restriction | Not applicable. |
| | Enzyme | |
| | 10X HaeIII Restriction | Not applicable. |
| | Enzyme | |
| | Positive Control Salmon | Not applicable. |
| | DNA | |
| | Nuclease Free Water | Not applicable. |
| Hazardous ingredients | : 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| Supplemental label elements | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Safety data sheet available on request. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Safety data sheet available on request. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction | Not applicable. |
| | Enzyme | |
| | 10X NlaIII Restriction | Not applicable. |
| | Enzyme | |
| | 10X HaeIII Restriction | Contains 2-mercaptoethanol. May produce an allergic reaction. Safety data sheet available on request. |
| | Enzyme | |
| | Positive Control Salmon | Not applicable. |
| | DNA | |
| | Nuclease Free Water | Not applicable. |

PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

SECTION 2: Hazards identification

| | | |
|---|-------------------------------|-----------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction Enzyme | Not applicable. |
| | 10X NlaIII Restriction Enzyme | Not applicable. |
| | 10X HaeIII Restriction Enzyme | Not applicable. |
| | Positive Control Salmon DNA | Not applicable. |
| | Nuclease Free Water | Not applicable. |

Special packaging requirements

| | | |
|----------------------------------|-------------------------------|-----------------|
| Tactile warning of danger | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction Enzyme | Not applicable. |
| | 10X NlaIII Restriction Enzyme | Not applicable. |
| | 10X HaeIII Restriction Enzyme | Not applicable. |
| | Positive Control Salmon DNA | Not applicable. |
| | Nuclease Free Water | Not applicable. |

2.3 Other hazards

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

| | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|----------------------------|-----|-----|
| Nuclease Free Water Not applicable (Inorganic) | | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A |

| | |
|-------------------------------|---|
| 2X PCR Master Mix | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X PCR Primer Mix | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 60 mM EDTA | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X Ddel Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X NlaIII/HaeIII Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 100X BSA | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X Ddel Restriction Enzyme | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X NlaIII Restriction Enzyme | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 10X HaeIII Restriction Enzyme | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Positive Control Salmon DNA | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |

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SECTION 2: Hazards identification

| | | |
|--|--------------------------------------|-------------|
| Other hazards which do not result in classification | 2X PCR Master Mix | None known. |
| | 10X PCR Primer Mix | None known. |
| | 60 mM EDTA | None known. |
| | 10X Ddel Buffer | None known. |
| | 10X NlaIII/HaeIII Buffer | None known. |
| | 100X BSA | None known. |
| | 10X Ddel Restriction Enzyme | None known. |
| | 10X NlaIII Restriction Enzyme | None known. |
| | 10X HaeIII Restriction Enzyme | None known. |
| | Positive Control Salmon DNA | None known. |
| | Nuclease Free Water | None known. |

SECTION 3: Composition/information on ingredients

| | | |
|----------------------------|--------------------------------------|---------|
| 3.1 Substances | 2X PCR Master Mix | Mixture |
| | 10X PCR Primer Mix | Mixture |
| | 60 mM EDTA | Mixture |
| | 10X Ddel Buffer | Mixture |
| | 10X NlaIII/HaeIII Buffer | Mixture |
| | 100X BSA | Mixture |
| | 10X Ddel Restriction Enzyme | Mixture |
| | 10X NlaIII Restriction Enzyme | Mixture |
| | 10X HaeIII Restriction Enzyme | Mixture |
| | Positive Control Salmon DNA | Mixture |
| Nuclease Free Water | Mono-constituent substance | |

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|--|-----------|--|------|
| 2X PCR Master Mix Glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≤3 | Not classified. | [2] |
| 60 mM EDTA Edetic acid | EC: 200-449-4 CAS: 60-00-4 Index: 607-429-00-8 | ≤3 | Eye Irrit. 2, H319 | [1] |
| 10X Ddel Buffer Sodium chloride | EC: 231-598-3 CAS: 7647-14-5 | <10 | Eye Irrit. 2, H319 | [1] |
| Magnesium chloride | EC: 232-094-6 CAS: 7786-30-3 | <2.5 | Aquatic Chronic 1, H410 (M=1) | [1] |
| 10X NlaIII/HaeIII Buffer [2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]ammonium acetate | EC: 229-939-6 CAS: 6850-28-8 | ≤5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 | [1] |
| 100X BSA Glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≤10 | Not classified. | [2] |
| 10X Ddel Restriction Enzyme Glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥50 - ≤75 | Not classified. | [2] |

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SECTION 3: Composition/information on ingredients

| | | | | |
|--|--|-----------|---|-----|
| 10X NlaIII Restriction Enzyme Glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥50 - ≤75 | Not classified. | [2] |
| 10X HaeIII Restriction Enzyme Glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥50 - ≤75 | Not classified. | [2] |
| Nuclease Free Water water | REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5 | 100 | Not classified. | [A] |
| | | | See Section 16 for the full text of the H statements declared above. | |

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | | |
|--------------------|-------------------------------|--|
| Eye contact | : 2X PCR Master Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | 10X PCR Primer Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | 60 mM EDTA | 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. |
| | 10X Ddel 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 if irritation occurs. |
| | 10X NlaIII/HaeIII 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. |
| | 100X BSA | 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. |
| | 10X Ddel Restriction Enzyme | 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. |
| | 10X NlaIII Restriction Enzyme | 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. |
| | 10X HaeIII Restriction Enzyme | 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. |
| | Positive Control Salmon | Immediately flush eyes with plenty of water, occasionally |

SECTION 4: First aid measures

| | | |
|-------------------|-------------------------------|--|
| | DNA | lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Nuclease Free Water | 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. |
| Inhalation | : 2X PCR Master Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 10X PCR Primer Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 60 mM EDTA | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 10X Ddel Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. |
| | 10X NlaIII/HaeIII Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 100X BSA | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 10X Ddel Restriction Enzyme | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 10X NlaIII Restriction Enzyme | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 10X HaeIII Restriction Enzyme | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Positive Control Salmon DNA | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Nuclease Free Water | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |

SECTION 4: First aid measures

| | | |
|---------------------|-------------------------------|--|
| Skin contact | : 2X PCR Master Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 10X PCR Primer Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 60 mM EDTA | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 10X Ddel Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| | 10X NlaIII/HaeIII Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 100X BSA | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 10X Ddel Restriction Enzyme | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 10X NlaIII Restriction Enzyme | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | 10X HaeIII Restriction Enzyme | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Positive Control Salmon DNA | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Nuclease Free Water | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : 2X PCR Master Mix | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | 10X PCR Primer Mix | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | 60 mM EDTA | 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. |
| | 10X Ddel Buffer | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| | 10X NlaIII/HaeIII Buffer | Wash out mouth with water. If material has been swallowed |

SECTION 4: First aid measures

| | | |
|-----------------------------------|-------------------------------|--|
| | | 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. |
| | 100X BSA | 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. |
| | 10X Ddel Restriction Enzyme | 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. |
| | 10X NlaIII Restriction Enzyme | 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. |
| | 10X HaeIII Restriction Enzyme | 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. |
| | Positive Control Salmon DNA | 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 Free Water | 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. |
| Protection of first-aiders | : 2X PCR Master Mix | No action shall be taken involving any personal risk or without suitable training. |
| | 10X PCR Primer Mix | No action shall be taken involving any personal risk or without suitable training. |
| | 60 mM EDTA | No action shall be taken involving any personal risk or without suitable training. |
| | 10X Ddel Buffer | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| | 10X NlaIII/HaeIII Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | 100X BSA | No action shall be taken involving any personal risk or without suitable training. |
| | 10X Ddel Restriction Enzyme | No action shall be taken involving any personal risk or without suitable training. |
| | 10X NlaIII Restriction Enzyme | No action shall be taken involving any personal risk or without suitable training. |
| | 10X HaeIII Restriction Enzyme | No action shall be taken involving any personal risk or without suitable training. |
| | Positive Control Salmon DNA | No action shall be taken involving any personal risk or without suitable training. |
| | Nuclease Free Water | No action shall be taken involving any personal risk or without suitable training. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

| | | | | |
|---------------------|-------------------|-------------------------------|---|---|
| Eye contact | : | 2X PCR Master Mix | No known significant effects or critical hazards. | |
| | | 10X PCR Primer Mix | No known significant effects or critical hazards. | |
| | | 60 mM EDTA | No known significant effects or critical hazards. | |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| | Inhalation | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | 60 mM EDTA | No known significant effects or critical hazards. | |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| Skin contact | | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | 60 mM EDTA | No known significant effects or critical hazards. | |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| | Ingestion | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | 60 mM EDTA | No known significant effects or critical hazards. | |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |

Over-exposure signs/symptoms

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SECTION 4: First aid measures

| | | | |
|---------------------|---|-------------------------------|-------------------|
| Eye contact | : | 2X PCR Master Mix | No specific data. |
| | | 10X PCR Primer Mix | No specific data. |
| | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. |
| | | 10X NlaIII/HaeIII Buffer | No specific data. |
| | | 100X BSA | No specific data. |
| | | 10X Ddel Restriction Enzyme | No specific data. |
| | | 10X NlaIII Restriction Enzyme | No specific data. |
| | | 10X HaeIII Restriction Enzyme | No specific data. |
| | | Positive Control Salmon DNA | No specific data. |
| | | Nuclease Free Water | No specific data. |
| Inhalation | : | 2X PCR Master Mix | No specific data. |
| | | 10X PCR Primer Mix | No specific data. |
| | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. |
| | | 10X NlaIII/HaeIII Buffer | No specific data. |
| | | 100X BSA | No specific data. |
| | | 10X Ddel Restriction Enzyme | No specific data. |
| | | 10X NlaIII Restriction Enzyme | No specific data. |
| | | 10X HaeIII Restriction Enzyme | No specific data. |
| | | Positive Control Salmon DNA | No specific data. |
| | | Nuclease Free Water | No specific data. |
| Skin contact | : | 2X PCR Master Mix | No specific data. |
| | | 10X PCR Primer Mix | No specific data. |
| | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. |
| | | 10X NlaIII/HaeIII Buffer | No specific data. |
| | | 100X BSA | No specific data. |
| | | 10X Ddel Restriction Enzyme | No specific data. |
| | | 10X NlaIII Restriction Enzyme | No specific data. |
| | | 10X HaeIII Restriction Enzyme | No specific data. |
| | | Positive Control Salmon DNA | No specific data. |
| | | Nuclease Free Water | No specific data. |
| Ingestion | : | 2X PCR Master Mix | No specific data. |
| | | 10X PCR Primer Mix | No specific data. |
| | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. |
| | | 10X NlaIII/HaeIII Buffer | No specific data. |
| | | 100X BSA | No specific data. |
| | | 10X Ddel Restriction Enzyme | No specific data. |
| | | 10X NlaIII Restriction Enzyme | No specific data. |
| | | 10X HaeIII Restriction Enzyme | No specific data. |
| | | Positive Control Salmon DNA | No specific data. |
| | | Nuclease Free Water | No specific data. |

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

| | | |
|----------------------------|---|--|
| Notes to physician | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. 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. 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. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | | |
|-------------------------------------|---|---|
| Suitable extinguishing media | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. |
|-------------------------------------|---|---|

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SECTION 5: Firefighting measures

| | | |
|---------------------------------------|-------------------------------|-------------|
| Unsuitable extinguishing media | : 2X PCR Master Mix | None known. |
| | 10X PCR Primer Mix | None known. |
| | 60 mM EDTA | None known. |
| | 10X Ddel Buffer | None known. |
| | 10X NlaIII/HaeIII Buffer | None known. |
| | 100X BSA | None known. |
| | 10X Ddel Restriction Enzyme | None known. |
| | 10X NlaIII Restriction Enzyme | None known. |
| | 10X HaeIII Restriction Enzyme | None known. |
| | Positive Control Salmon DNA | None known. |
| | Nuclease Free Water | None known. |

5.2 Special hazards arising from the substance or mixture

| | | | |
|--|---|---|---|
| Hazards from the substance or mixture | : 2X PCR Master Mix | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 10X PCR Primer Mix | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 60 mM EDTA | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 10X Ddel Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. | |
| | 10X NlaIII/HaeIII Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 100X BSA | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 10X Ddel Restriction Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 10X NlaIII Restriction Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | 10X HaeIII Restriction Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | Positive Control Salmon DNA | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | Nuclease Free Water | In a fire or if heated, a pressure increase will occur and the container may burst. | |
| | Hazardous combustion products | : 2X PCR Master Mix | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| | | 10X PCR Primer Mix | No specific data. |
| | | 60 mM EDTA | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
| 10X Ddel Buffer | | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides | |
| 10X NlaIII/HaeIII Buffer | | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides | |
| 100X BSA | Decomposition products may include the following materials: | | |

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SECTION 5: Firefighting measures

| | |
|--|--|
| | carbon dioxide carbon monoxide nitrogen oxides sulfur oxides |
| 10X Ddel Restriction Enzyme | Decomposition products may include the following materials: |
| | carbon dioxide carbon monoxide |
| 10X NlaIII Restriction Enzyme | Decomposition products may include the following materials: |
| | carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |
| 10X HaeIII Restriction Enzyme | Decomposition products may include the following materials: |
| | carbon dioxide carbon monoxide |
| Positive Control Salmon DNA Nuclease Free Water | No specific data. No specific data. |

5.3 Advice for firefighters

Special precautions for fire-fighters

| | |
|-------------------------------|---|
| : 2X PCR Master Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| 10X PCR Primer Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| 60 mM EDTA | 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. |
| 10X Ddel 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. |
| 10X NlaIII/HaeIII 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. |
| 100X BSA | 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. |
| 10X Ddel Restriction Enzyme | 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. |
| 10X NlaIII Restriction Enzyme | 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. |
| 10X HaeIII Restriction Enzyme | 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. |
| Positive Control Salmon DNA | 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 Free Water | 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. |

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

| | |
|-------------------------------|---|
| : 2X PCR Master Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| 10X PCR Primer Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| 60 mM EDTA | 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. |
| 10X Ddel 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. |
| 10X NlaIII/HaeIII 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. |
| 100X BSA | 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. |
| 10X Ddel Restriction Enzyme | 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. |
| 10X NlaIII Restriction Enzyme | 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. |
| 10X HaeIII Restriction Enzyme | 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. |
| Positive Control Salmon DNA | 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 Free Water | 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 |

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SECTION 5: Firefighting measures

fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|-------------------------------|---|
| For non-emergency personnel | : 2X PCR Master Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | 10X PCR Primer Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | 60 mM EDTA | 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. |
| | 10X Ddel Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| | 10X NlaIII/HaeIII 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. |
| | 100X BSA | 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. |
| | 10X Ddel Restriction Enzyme | 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. |
| | 10X NlaIII Restriction Enzyme | 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. |
| | 10X HaeIII Restriction Enzyme | 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. |
| | Positive Control Salmon DNA | 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 Free Water | 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 |

SECTION 6: Accidental release measures

| | | |
|--------------------------------------|-------------------------------|---|
| For emergency responders | : 2X PCR Master Mix | appropriate personal protective equipment. 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". |
| | 10X PCR Primer Mix | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | 60 mM EDTA | 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". |
| | 10X Ddel 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". |
| | 10X NlaIII/HaeIII 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". |
| | 100X BSA | 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". |
| | 10X Ddel Restriction Enzyme | 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". |
| | 10X NlaIII Restriction Enzyme | 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". |
| | 10X HaeIII Restriction Enzyme | 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". |
| | Positive Control Salmon DNA | 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 Free Water | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : 2X PCR Master Mix | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | 10X PCR Primer Mix | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | 60 mM EDTA | 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). |
| | 10X Ddel Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. |

SECTION 6: Accidental release measures

| | |
|-------------------------------|---|
| | May be harmful to the environment if released in large quantities. |
| 10X NlaIII/HaeIII 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). |
| 100X BSA | 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). |
| 10X DdeI Restriction Enzyme | 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). |
| 10X NlaIII Restriction Enzyme | 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). |
| 10X HaeIII Restriction Enzyme | 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). |
| Positive Control Salmon DNA | 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 Free Water | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

6.3 Methods and material for containment and cleaning up

| | |
|--|---|
| Methods for cleaning up : 2X PCR Master Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| 10X PCR Primer Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| 60 mM EDTA | 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. |
| 10X DdeI 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. |
| 10X NlaIII/HaeIII 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. |
| 100X BSA | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

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SECTION 6: Accidental release measures

| | |
|-------------------------------|---|
| 10X Ddel Restriction Enzyme | 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. |
| 10X NlaIII Restriction Enzyme | 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. |
| 10X HaeIII Restriction Enzyme | 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. |
| Positive Control Salmon DNA | 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 Free Water | 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. |

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 | : 2X PCR Master Mix | Put on appropriate personal protective equipment (see Section 8). |
| | 10X PCR Primer Mix | Put on appropriate personal protective equipment (see Section 8). |
| | 60 mM EDTA | Put on appropriate personal protective equipment (see Section 8). |
| | 10X Ddel Buffer | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| | 10X NlaIII/HaeIII Buffer | Put on appropriate personal protective equipment (see Section 8). |
| | 100X BSA | Put on appropriate personal protective equipment (see Section 8). |
| | 10X Ddel Restriction Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| | 10X NlaIII Restriction Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| | 10X HaeIII Restriction Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| | Positive Control Salmon DNA | Put on appropriate personal protective equipment (see Section 8). |
| | Nuclease Free Water | Put on appropriate personal protective equipment (see Section 8). |

SECTION 7: Handling and storage

Advice on general occupational hygiene

| | |
|-------------------------------|---|
| : 2X PCR Master Mix | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 10X PCR Primer Mix | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 60 mM EDTA | 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. |
| 10X Ddel 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. |
| 10X NlaIII/HaeIII 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. |
| 100X BSA | 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. |
| 10X Ddel Restriction Enzyme | 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. |
| 10X NlaIII Restriction Enzyme | 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. |
| 10X HaeIII Restriction Enzyme | 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. |
| Positive Control Salmon DNA | 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 Free Water | 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, |

SECTION 7: Handling and storage

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 | : 2X PCR Master Mix | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 10X PCR Primer Mix | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 60 mM EDTA | 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. |
| | 10X Ddel Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 10X NlaIII/HaeIII Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 100X BSA | 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 |

SECTION 7: Handling and storage

| | |
|-------------------------------|--|
| 10X Ddel Restriction Enzyme | appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| 10X NlaIII Restriction Enzyme | 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. |
| 10X HaeIII Restriction Enzyme | 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. |
| Positive Control Salmon DNA | 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. |
| Nuclease Free Water | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

7.3 Specific end use(s)

Recommendations

| | |
|--------------------------|---|
| : 2X PCR Master Mix | Industrial applications, Professional applications. |
| 10X PCR Primer Mix | Industrial applications, Professional applications. |
| 60 mM EDTA | Industrial applications, Professional applications. |
| 10X Ddel Buffer | Industrial applications, Professional applications. |
| 10X NlaIII/HaeIII Buffer | Industrial applications, Professional applications. |
| 100X BSA | Industrial applications, Professional applications. |
| 10X Ddel Restriction | Industrial applications, Professional applications. |

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SECTION 7: Handling and storage

| | | |
|---|-----------------------------|---|
| Industrial sector specific solutions | Enzyme | |
| | 10X NlaIII Restriction | Industrial applications, Professional applications. |
| | Enzyme | |
| | 10X HaeIII Restriction | Industrial applications, Professional applications. |
| | Enzyme | |
| | Positive Control Salmon DNA | Industrial applications, Professional applications. |
| | Nuclease Free Water | Industrial applications, Professional applications. |
| | 2X PCR Master Mix | Not available. |
| | 10X PCR Primer Mix | Not available. |
| | 60 mM EDTA | Not available. |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | Not available. |
| | 10X Ddel Restriction | Not available. |
| | Enzyme | |
| | 10X NlaIII Restriction | Not available. |
| | Enzyme | |
| | 10X HaeIII Restriction | Not available. |
| | Enzyme | |
| | Positive Control Salmon DNA | Not available. |
| Nuclease Free Water | Not available. | |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|---|
| 2X PCR Master Mix Glycerol | NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist |
| 100X BSA Glycerol | NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist |
| 10X Ddel Restriction Enzyme Glycerol | NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist |
| 10X NlaIII Restriction Enzyme Glycerol | NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist |
| 10X HaeIII Restriction Enzyme Glycerol | NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist |

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.

SECTION 8: Exposure controls/personal protection

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|-----------------------|---------------------------|--------------------|----------|
| 60 mM EDTA Edetic acid | DNEL | Long term Inhalation | 0.6 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 1.2 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1.5 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 3 mg/m ³ | Workers | Local |
| | DNEL | Long term Oral | 25 mg/kg bw/day | General population | Systemic |
| 10X Ddel Buffer Sodium chloride | DNEL | Short term Oral | 126.65 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 126.65 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 126.65 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 126.65 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 295.52 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 295.52 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 443.28 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 443.28 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 2068.62 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 2068.62 mg/m ³ | Workers | Systemic |
| Magnesium chloride | DNEL | Long term Oral | 7 mg/kg bw/day | General population | Systemic |

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

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

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SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

| | | | | |
|-----------------------|---------------|-------------------------------|--------------------|----------------|
| Physical state | : | 2X PCR Master Mix | Liquid. | |
| | | 10X PCR Primer Mix | Liquid. | |
| | | 60 mM EDTA | Liquid. | |
| | | 10X Ddel Buffer | Liquid. | |
| | | 10X NlaIII/HaeIII Buffer | Liquid. | |
| | | 100X BSA | Liquid. | |
| | | 10X Ddel Restriction Enzyme | Liquid. | |
| | | 10X NlaIII Restriction Enzyme | Liquid. | |
| | | 10X HaeIII Restriction Enzyme | Liquid. | |
| | | Positive Control Salmon DNA | Liquid. | |
| | | Nuclease Free Water | Liquid. | |
| | Colour | : | 2X PCR Master Mix | Not available. |
| | | | 10X PCR Primer Mix | Not available. |
| | | 60 mM EDTA | Not available. | |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | 10X HaeIII Restriction Enzyme | Not available. | |
| | | Positive Control Salmon DNA | Not available. | |
| | | Nuclease Free Water | Colourless. | |
| Odour | | : | 2X PCR Master Mix | Not available. |
| | | | 10X PCR Primer Mix | Not available. |
| | | 60 mM EDTA | Not available. | |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | | | |
| | | | | |

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SECTION 9: Physical and chemical properties

| | | |
|--|-------------------------------|-----------------|
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | Not available. |
| | Nuclease Free Water | Odourless. |
| Odour threshold | : 2X PCR Master Mix | Not available. |
| | 10X PCR Primer Mix | Not available. |
| | 60 mM EDTA | Not available. |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | Not available. |
| | 10X Ddel Restriction Enzyme | Not available. |
| | 10X NlaIII Restriction Enzyme | Not available. |
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | Not available. |
| | Nuclease Free Water | Not available. |
| Melting point/freezing point | : 2X PCR Master Mix | 0°C |
| | 10X PCR Primer Mix | 0°C |
| | 60 mM EDTA | Not available. |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | 0°C |
| | 10X Ddel Restriction Enzyme | Not available. |
| | 10X NlaIII Restriction Enzyme | Not available. |
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | 0°C |
| | Nuclease Free Water | 0°C |
| Initial boiling point and boiling range | : 2X PCR Master Mix | 100°C (212°F) |
| | 10X PCR Primer Mix | 100°C (212°F) |
| | 60 mM EDTA | Not available. |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | 100°C (212°F) |
| | 10X Ddel Restriction Enzyme | Not available. |
| | 10X NlaIII Restriction Enzyme | Not available. |
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | 100°C (212°F) |
| | Nuclease Free Water | 100°C (212°F) |
| Flammability (solid, gas) | : 2X PCR Master Mix | Not applicable. |
| | 10X PCR Primer Mix | Not applicable. |
| | 60 mM EDTA | Not applicable. |
| | 10X Ddel Buffer | Not applicable. |
| | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | 100X BSA | Not applicable. |
| | 10X Ddel Restriction Enzyme | Not applicable. |
| | 10X NlaIII Restriction Enzyme | Not applicable. |
| | 10X HaeIII Restriction Enzyme | Not applicable. |

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SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits :

| | |
|-------------------------------|-----------------|
| Positive Control Salmon DNA | Not applicable. |
| Nuclease Free Water | Not applicable. |
| 2X PCR Master Mix | Not available. |
| 10X PCR Primer Mix | Not available. |
| 60 mM EDTA | Not available. |
| 10X Ddel Buffer | Not available. |
| 10X NlaIII/HaeIII Buffer | Not available. |
| 100X BSA | Not available. |
| 10X Ddel Restriction Enzyme | Not available. |
| 10X NlaIII Restriction Enzyme | Not available. |
| 10X HaeIII Restriction Enzyme | Not available. |
| Positive Control Salmon DNA | Not available. |
| Nuclease Free Water | Not available. |

Flash point :

| Ingredient name | Closed cup | | | Open cup | | |
|---|------------|------|-----------|----------|-------|--------|
| | °C | °F | Method | °C | °F | Method |
| 2X PCR Master Mix | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| (R*,R*) -1,4-Dimercaptobutane-2,3-diol | >110 | >230 | | | | |
| 60 mM EDTA | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| 10X Ddel Buffer | | | | | | |
| (R*,R*) -1,4-Dimercaptobutane-2,3-diol | >110 | >230 | | | | |
| 10X NlaIII/HaeIII Buffer | | | | | | |
| (R*,R*) -1,4-Dimercaptobutane-2,3-diol | >110 | >230 | | | | |
| 100X BSA | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| Glycerol | | | | 177 | 350.6 | |
| 10X Ddel Restriction Enzyme | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| (R*,R*) -1,4-Dimercaptobutane-2,3-diol | >110 | >230 | | | | |
| 10X NlaIII Restriction Enzyme | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| (R*,R*) -1,4-Dimercaptobutane-2,3-diol | >110 | >230 | | | | |

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SECTION 9: Physical and chemical properties

| | | | | | |
|--------------------------------------|------|-------|-----------|----|-------|
| 10X HaeIII Restriction Enzyme | | | | | |
| 2-Mercaptoethanol | 74 | 165.2 | | 74 | 165.2 |
| Edetic acid | >100 | >212 | DIN 51758 | | |
| Positive Control Salmon DNA | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | |

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|--------------------------------------|------|------|----------|
| 2X PCR Master Mix | | | |
| Glycerol | 370 | 698 | |
| Edetic acid | >400 | >752 | VDI 2263 |
| 60 mM EDTA | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| 10X NlaIII/HaeIII Buffer | | | |
| Magnesium di(acetate) | 310 | 590 | EU A.16 |
| potassium acetate | >410 | >770 | EU A.16 |
| 100X BSA | | | |
| Glycerol | 370 | 698 | |
| Edetic acid | >400 | >752 | VDI 2263 |
| 10X Ddel Restriction Enzyme | | | |
| Glycerol | 370 | 698 | |
| Edetic acid | >400 | >752 | VDI 2263 |
| 10X NlaIII Restriction Enzyme | | | |
| Glycerol | 370 | 698 | |
| Edetic acid | >400 | >752 | VDI 2263 |
| 10X HaeIII Restriction Enzyme | | | |
| 2-Mercaptoethanol | 295 | 563 | |
| Glycerol | 370 | 698 | |
| Positive Control Salmon DNA | | | |
| Edetic acid | >400 | >752 | VDI 2263 |

Decomposition temperature

| | |
|-------------------------------|----------------|
| 2X PCR Master Mix | Not available. |
| 10X PCR Primer Mix | Not available. |
| 60 mM EDTA | Not available. |
| 10X Ddel Buffer | Not available. |
| 10X NlaIII/HaeIII Buffer | Not available. |
| 100X BSA | Not available. |
| 10X Ddel Restriction Enzyme | Not available. |
| 10X NlaIII Restriction Enzyme | Not available. |
| 10X HaeIII Restriction Enzyme | Not available. |

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SECTION 9: Physical and chemical properties

| | | |
|---|-------------------------------|--|
| | Positive Control Salmon DNA | Not available. |
| | Nuclease Free Water | Not available. |
| pH | : 2X PCR Master Mix | 8.8 |
| | 10X PCR Primer Mix | 8.8 |
| | 60 mM EDTA | 8.8 |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | Not available. |
| | 10X Ddel Restriction Enzyme | Not available. |
| | 10X NlaIII Restriction Enzyme | Not available. |
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | Not available. |
| | Nuclease Free Water | 7 |
| Viscosity | : 2X PCR Master Mix | Not available. |
| | 10X PCR Primer Mix | Not available. |
| | 60 mM EDTA | Not available. |
| | 10X Ddel Buffer | Not available. |
| | 10X NlaIII/HaeIII Buffer | Not available. |
| | 100X BSA | Not available. |
| | 10X Ddel Restriction Enzyme | Not available. |
| | 10X NlaIII Restriction Enzyme | Not available. |
| | 10X HaeIII Restriction Enzyme | Not available. |
| | Positive Control Salmon DNA | Not available. |
| | Nuclease Free Water | Not available. |
| Solubility(ies) | : 2X PCR Master Mix | Easily soluble in the following materials: cold water and hot water. |
| | 10X PCR Primer Mix | Easily soluble in the following materials: cold water and hot water. |
| | 60 mM EDTA | Easily soluble in the following materials: cold water and hot water. |
| | 10X Ddel Buffer | Easily soluble in the following materials: cold water and hot water. |
| | 10X NlaIII/HaeIII Buffer | Easily soluble in the following materials: cold water and hot water. |
| | 100X BSA | Easily soluble in the following materials: cold water and hot water. |
| | 10X Ddel Restriction Enzyme | Soluble in the following materials: cold water and hot water. |
| | 10X NlaIII Restriction Enzyme | Soluble in the following materials: cold water and hot water. |
| | 10X HaeIII Restriction Enzyme | Soluble in the following materials: cold water and hot water. |
| | Positive Control Salmon DNA | Easily soluble in the following materials: cold water and hot water. |
| | Nuclease Free Water | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : | |

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SECTION 9: Physical and chemical properties

2X PCR Master Mix Not applicable.
 10X PCR Primer Mix Not applicable.
 60 mM EDTA Not applicable.
 10X Ddel Buffer Not applicable.
 10X NlaIII/HaeIII Buffer Not applicable.
 100X BSA Not applicable.
 10X Ddel Restriction Enzyme Not applicable.
 10X NlaIII Restriction Enzyme Not applicable.
 10X HaeIII Restriction Enzyme Not applicable.
 Positive Control Salmon DNA Not applicable.
 Nuclease Free Water -1.38

Vapour pressure

: 2X PCR Master Mix Not available.
 10X PCR Primer Mix Not available.
 60 mM EDTA Not available.
 10X Ddel Buffer Not available.
 10X NlaIII/HaeIII Buffer Not available.
 100X BSA Not available.
 10X Ddel Restriction Enzyme Not available.
 10X NlaIII Restriction Enzyme Not available.
 10X HaeIII Restriction Enzyme Not available.
 Positive Control Salmon DNA Not available.
 Nuclease Free Water 3.2 kPa (23.8 mm Hg) [room temperature]
 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|-------------------------|-------------|--------|-------------------------|----------|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 2X PCR Master Mix | | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| Glycerol | 0.000075 | 0.00001 | | 0.0025 | 0.00033 | |
| 10X PCR Primer Mix | | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| 60 mM EDTA | | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| Edetic acid | 0 | 0 | | | | |
| 10X Ddel Buffer | | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | 0.000027 | 0.0000036 | | 0.000007501 | 0.000001 | |
| 10X NlaIII/HaeIII Buffer | | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| potassium acetate | 0.000000013 | 0.000000017 | | | | |
| 100X BSA | | | | | | |

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| | | | | | |
|---|----------|-----------|--|-------------|----------|
| water | 23.8 | 3.2 | | 92.258 | 12.3 |
| Glycerol | 0.000075 | 0.00001 | | 0.0025 | 0.00033 |
| 10X Ddel Restriction Enzyme | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 |
| Glycerol | 0.000075 | 0.00001 | | 0.0025 | 0.00033 |
| 10X NlaIII Restriction Enzyme | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 |
| Glycerol | 0.000075 | 0.00001 | | 0.0025 | 0.00033 |
| 10X HaeIII Restriction Enzyme | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 |
| 2-Mercaptoethanol | 0.98 | 0.13 | | | |
| Positive Control Salmon DNA | | | | | |
| water | 23.8 | 3.2 | | 92.258 | 12.3 |
| 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | 0.000027 | 0.0000036 | | 0.000007501 | 0.000001 |

| | | | | |
|-------------------------|-------------------------|-------------------------------|--------------------|----------------|
| Evaporation rate | : | 2X PCR Master Mix | Not available. | |
| | | 10X PCR Primer Mix | Not available. | |
| | | 60 mM EDTA | Not available. | |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | 10X HaeIII Restriction Enzyme | Not available. | |
| | | Positive Control Salmon DNA | Not available. | |
| | | Nuclease Free Water | Not available. | |
| | Relative density | : | 2X PCR Master Mix | Not available. |
| | | | 10X PCR Primer Mix | Not available. |
| | | | 60 mM EDTA | Not available. |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | 10X HaeIII Restriction Enzyme | Not available. | |
| | | Positive Control Salmon DNA | Not available. | |
| | | Nuclease Free Water | 1 | |

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SECTION 9: Physical and chemical properties

| | | | | |
|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|
| Vapour density | : | 2X PCR Master Mix | Not available. | |
| | | 10X PCR Primer Mix | Not available. | |
| | | 60 mM EDTA | Not available. | |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | 10X HaeIII Restriction Enzyme | Not available. | |
| | | Positive Control Salmon DNA | Not available. | |
| | | Nuclease Free Water | 0.62 [Air = 1] | |
| | Oxidising properties | : | 2X PCR Master Mix | Not available. |
| | | | 10X PCR Primer Mix | Not available. |
| | | | 60 mM EDTA | Not available. |
| | | 10X Ddel Buffer | Not available. | |
| | | 10X NlaIII/HaeIII Buffer | Not available. | |
| | | 100X BSA | Not available. | |
| | | 10X Ddel Restriction Enzyme | Not available. | |
| | | 10X NlaIII Restriction Enzyme | Not available. | |
| | | 10X HaeIII Restriction Enzyme | Not available. | |
| | | Positive Control Salmon DNA | Not available. | |
| | | Nuclease Free Water | Not available. | |

Particle characteristics

| | | | |
|-----------------------------|---|-------------------------------|-----------------|
| Median particle size | : | 2X PCR Master Mix | Not applicable. |
| | | 10X PCR Primer Mix | Not applicable. |
| | | 60 mM EDTA | Not applicable. |
| | | 10X Ddel Buffer | Not applicable. |
| | | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | | 100X BSA | Not applicable. |
| | | 10X Ddel Restriction Enzyme | Not applicable. |
| | | 10X NlaIII Restriction Enzyme | Not applicable. |
| | | 10X HaeIII Restriction Enzyme | Not applicable. |
| | | Positive Control Salmon DNA | Not applicable. |
| | | Nuclease Free Water | Not applicable. |

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| | | | |
|------------------------|---|--------------------------|--|
| 10.1 Reactivity | : | 2X PCR Master Mix | No specific test data related to reactivity available for this product or its ingredients. |
| | | 10X PCR Primer Mix | No specific test data related to reactivity available for this product or its ingredients. |
| | | 60 mM EDTA | No specific test data related to reactivity available for this product or its ingredients. |
| | | 10X Ddel Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | | 10X NlaIII/HaeIII Buffer | No specific test data related to reactivity available for this product or its ingredients. |

SECTION 10: Stability and reactivity

| | |
|-------------------------------|--|
| 100X BSA | No specific test data related to reactivity available for this product or its ingredients. |
| 10X Ddel Restriction Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| 10X NlaIII Restriction Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| 10X HaeIII Restriction Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| Positive Control Salmon DNA | No specific test data related to reactivity available for this product or its ingredients. |
| Nuclease Free Water | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability

| | |
|-------------------------------|------------------------|
| : 2X PCR Master Mix | The product is stable. |
| 10X PCR Primer Mix | The product is stable. |
| 60 mM EDTA | The product is stable. |
| 10X Ddel Buffer | The product is stable. |
| 10X NlaIII/HaeIII Buffer | The product is stable. |
| 100X BSA | The product is stable. |
| 10X Ddel Restriction Enzyme | The product is stable. |
| 10X NlaIII Restriction Enzyme | The product is stable. |
| 10X HaeIII Restriction Enzyme | The product is stable. |
| Positive Control Salmon DNA | The product is stable. |
| Nuclease Free Water | The product is stable. |

10.3 Possibility of hazardous reactions

| | |
|-------------------------------|---|
| : 2X PCR Master Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X PCR Primer Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 60 mM EDTA | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X Ddel Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X NlaIII/HaeIII Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 100X BSA | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X Ddel Restriction Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X NlaIII Restriction Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X HaeIII Restriction Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Positive Control Salmon DNA | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Nuclease Free Water | Under normal conditions of storage and use, hazardous reactions will not occur. |

10.4 Conditions to avoid

| | |
|-----------------------------|-------------------|
| : 2X PCR Master Mix | No specific data. |
| 10X PCR Primer Mix | No specific data. |
| 60 mM EDTA | No specific data. |
| 10X Ddel Buffer | No specific data. |
| 10X NlaIII/HaeIII Buffer | No specific data. |
| 100X BSA | No specific data. |
| 10X Ddel Restriction Enzyme | No specific data. |
| 10X NlaIII Restriction | No specific data. |

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SECTION 10: Stability and reactivity

Enzyme
10X HaeIII Restriction No specific data.
Enzyme
Positive Control Salmon No specific data.
DNA
Nuclease Free Water No specific data.

10.5 Incompatible materials

: 2X PCR Master Mix May react or be incompatible with oxidising materials.
10X PCR Primer Mix May react or be incompatible with oxidising materials.
60 mM EDTA May react or be incompatible with oxidising materials.
10X Ddel Buffer May react or be incompatible with oxidising materials.
10X NlaIII/HaeIII Buffer May react or be incompatible with oxidising materials.
100X BSA May react or be incompatible with oxidising materials.
10X Ddel Restriction Enzyme May react or be incompatible with oxidising materials.
10X NlaIII Restriction Enzyme May react or be incompatible with oxidising materials.
10X HaeIII Restriction Enzyme May react or be incompatible with oxidising materials.
Positive Control Salmon DNA May react or be incompatible with oxidising materials.
Nuclease Free Water May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: 2X PCR Master Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X PCR Primer Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.
60 mM EDTA Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X Ddel Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X NlaIII/HaeIII Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
100X BSA Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X Ddel Restriction Enzyme Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X NlaIII Restriction Enzyme Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X HaeIII Restriction Enzyme Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Positive Control Salmon DNA Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Nuclease Free Water 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 |
|---|-------------|-----------------------|-------------|----------|
| 10X Ddel Buffer Sodium chloride Magnesium chloride | LD50 Oral | Rat | 3000 mg/kg | - |
| | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat | 2800 mg/kg | - |

Acute toxicity estimates

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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) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| 10X Ddel Buffer | | | | | |
| Sodium chloride | 3000 | N/A | N/A | N/A | N/A |
| Magnesium chloride | 2800 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| 10X Ddel Buffer | | | | | |
| Sodium chloride | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |

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 |
|--|------------|-------------------|------------------------------|
| 10X NlaIII/HaeIII Buffer [2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]ammonium acetate | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

| | |
|-------------------------------|--|
| 2X PCR Master Mix | Not available. |
| 10X PCR Primer Mix | Not available. |
| 60 mM EDTA | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 10X Ddel Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 10X NlaIII/HaeIII Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 100X BSA | Not available. |
| 10X Ddel Restriction Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 10X NlaIII Restriction Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 10X HaeIII Restriction Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| Positive Control Salmon DNA | Not available. |
| Nuclease Free Water | Not available. |

Potential acute health effects

SECTION 11: Toxicological information

| | | | | |
|---------------------|--------------------|-------------------------------|---|---|
| Inhalation | : | 2X PCR Master Mix | No known significant effects or critical hazards. | |
| | | 10X PCR Primer Mix | No known significant effects or critical hazards. | |
| | | 60 mM EDTA | No known significant effects or critical hazards. | |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| | Ingestion | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | | 60 mM EDTA | No known significant effects or critical hazards. |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| Skin contact | | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | | 60 mM EDTA | No known significant effects or critical hazards. |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |
| | Eye contact | : | 2X PCR Master Mix | No known significant effects or critical hazards. |
| | | | 10X PCR Primer Mix | No known significant effects or critical hazards. |
| | | | 60 mM EDTA | No known significant effects or critical hazards. |
| | | 10X Ddel Buffer | No known significant effects or critical hazards. | |
| | | 10X NlaIII/HaeIII Buffer | No known significant effects or critical hazards. | |
| | | 100X BSA | No known significant effects or critical hazards. | |
| | | 10X Ddel Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X NlaIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | 10X HaeIII Restriction Enzyme | No known significant effects or critical hazards. | |
| | | Positive Control Salmon DNA | No known significant effects or critical hazards. | |
| | | Nuclease Free Water | No known significant effects or critical hazards. | |

Symptoms related to the physical, chemical and toxicological characteristics

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SECTION 11: Toxicological information

| | | | | |
|---------------------|--------------------|-------------------------------|--------------------|-------------------|
| Inhalation | : | 2X PCR Master Mix | No specific data. | |
| | | 10X PCR Primer Mix | No specific data. | |
| | | 60 mM EDTA | No specific data. | |
| | | 10X Ddel Buffer | No specific data. | |
| | | 10X NlaIII/HaeIII Buffer | No specific data. | |
| | | 100X BSA | No specific data. | |
| | | 10X Ddel Restriction Enzyme | No specific data. | |
| | | 10X NlaIII Restriction Enzyme | No specific data. | |
| | | 10X HaeIII Restriction Enzyme | No specific data. | |
| | | Positive Control Salmon DNA | No specific data. | |
| | | Nuclease Free Water | No specific data. | |
| | Ingestion | : | 2X PCR Master Mix | No specific data. |
| | | | 10X PCR Primer Mix | No specific data. |
| | | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. | |
| | | 10X NlaIII/HaeIII Buffer | No specific data. | |
| | | 100X BSA | No specific data. | |
| | | 10X Ddel Restriction Enzyme | No specific data. | |
| | | 10X NlaIII Restriction Enzyme | No specific data. | |
| | | 10X HaeIII Restriction Enzyme | No specific data. | |
| | | Positive Control Salmon DNA | No specific data. | |
| | | Nuclease Free Water | No specific data. | |
| Skin contact | | : | 2X PCR Master Mix | No specific data. |
| | | | 10X PCR Primer Mix | No specific data. |
| | | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. | |
| | | 10X NlaIII/HaeIII Buffer | No specific data. | |
| | | 100X BSA | No specific data. | |
| | | 10X Ddel Restriction Enzyme | No specific data. | |
| | | 10X NlaIII Restriction Enzyme | No specific data. | |
| | | 10X HaeIII Restriction Enzyme | No specific data. | |
| | | Positive Control Salmon DNA | No specific data. | |
| | | Nuclease Free Water | No specific data. | |
| | Eye contact | : | 2X PCR Master Mix | No specific data. |
| | | | 10X PCR Primer Mix | No specific data. |
| | | | 60 mM EDTA | No specific data. |
| | | 10X Ddel Buffer | No specific data. | |
| | | 10X NlaIII/HaeIII Buffer | No specific data. | |
| | | 100X BSA | No specific data. | |
| | | 10X Ddel Restriction Enzyme | No specific data. | |
| | | 10X NlaIII Restriction Enzyme | No specific data. | |
| | | 10X HaeIII Restriction Enzyme | No specific data. | |
| | | Positive Control Salmon DNA | No specific data. | |
| | | Nuclease Free Water | No specific data. | |

[Delayed and immediate effects as well as chronic effects from short and long-term exposure](#)

[Short term exposure](#)

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SECTION 11: Toxicological information

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 | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | 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. 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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Carcinogenicity | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | 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. 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. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Mutagenicity | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | 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. 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. No known significant effects or critical hazards. No known significant effects or critical hazards. |

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SECTION 11: Toxicological information

| | | |
|------------------------------|---|---|
| Reproductive toxicity | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | 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. 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. No known significant effects or critical hazards. |
| Other information | : 2X PCR Master Mix 10X PCR Primer Mix 60 mM EDTA 10X Ddel Buffer 10X NlaIII/HaeIII Buffer 100X BSA 10X Ddel Restriction Enzyme 10X NlaIII Restriction Enzyme 10X HaeIII Restriction Enzyme Positive Control Salmon DNA Nuclease Free Water | Not available. Not available. Not available. Adverse symptoms may include the following: May cause skin sensitisation. Adverse symptoms may include the following: May cause skin sensitisation. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. |

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|-------------------------------------|---|----------|
| 60 mM EDTA Edetic acid | Acute EC50 113000 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 41000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| 10X Ddel Buffer Sodium chloride | Acute EC50 2430000 µg/l Fresh water | Algae - Navicula seminulum | 96 hours |
| | Acute EC50 519.6 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute EC50 402.6 mg/l Fresh water | Daphnia - Daphnia magna | 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 |
| Magnesium chloride | 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 |
| | Acute EC50 >100 mg/l Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Acute EC50 180000 µg/l Fresh water | Crustaceans - Eudiaptomus padanus ssp. padanus - Adult | 48 hours |
| | Acute IC50 6.8 mg/l Fresh water | Aquatic plants - Lemna aequinoctialis | 96 hours |

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SECTION 12: Ecological information

| | | | |
|--|-----------------------------------|-----------------------------------|----------|
| | Acute LC50 32000 µg/l Fresh water | Daphnia - Daphnia hyalina - Adult | 48 hours |
| | Acute LC50 2120 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute NOEC 100 mg/l Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Chronic NOEC 0.1 mg/l Fresh water | Fish - Cyprinus carpio | 35 days |

12.2 Persistence and degradability

Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------------------|-------------------|------------|------------------|
| 60 mM EDTA Edetic acid | - | - | Not readily |
| Nuclease Free Water water | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------------------|--------------------|-----|-----------|
| 60 mM EDTA Edetic acid | -3.86 | 1.8 | low |
| Nuclease Free Water water | -1.38 | - | 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

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|-------------------------------------|----------------------------|-----|-----|-----|----------------------------|-----|-----|
| Nuclease Free Water water | Not applicable (Inorganic) | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A |

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

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SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Additional information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
[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](#)

| | | | |
|--------------|---|-------------------------------|-----------------|
| Label | : | 2X PCR Master Mix | Not applicable. |
| | | 10X PCR Primer Mix | Not applicable. |
| | | 60 mM EDTA | Not applicable. |
| | | 10X Ddel Buffer | Not applicable. |
| | | 10X NlaIII/HaeIII Buffer | Not applicable. |
| | | 100X BSA | Not applicable. |
| | | 10X Ddel Restriction Enzyme | Not applicable. |
| | | 10X NlaIII Restriction Enzyme | Not applicable. |
| | | 10X HaeIII Restriction Enzyme | Not applicable. |
| | | Positive Control Salmon DNA | Not applicable. |

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SECTION 15: Regulatory information

Nuclease Free Water

Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|--------------------------|--|
| Australia | : Not determined. |
| Canada | : Not determined. |
| China | : Not determined. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. |
| New Zealand | : Not determined. |
| 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 active or exempted. |
| Viet Nam | : Not determined. |

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

PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification |
|---|--------------------|
| 10X Ddel Buffer Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| | |
|---|---|
| 60 mM EDTA H319 | Causes serious eye irritation. |
| 10X Ddel Buffer H319 H410 H412 | Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. |
| 10X NIaIII/HaeIII Buffer H315 H319 H335 | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. |

Full text of classifications [CLP/GHS]

| | |
|--|---|
| 60 mM EDTA Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| 10X Ddel Buffer Aquatic Chronic 1 Aquatic Chronic 3 Eye Irrit. 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| 10X NIaIII/HaeIII Buffer Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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Version : 1

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