

# SAFETY DATA SHEET

## Alien Reference RNA FAM QRT-PCR Detection Kit

### Section 1. Identification

|                                |   |           |  |
|--------------------------------|---|-----------|--|
| <b>Product identifier</b>      | : Alien Reference RNA FAM QRT-PCR Detection Kit |           |  |
| <b>Part no. (chemical kit)</b> | : 300602  |           |  |
| <b>Part no.</b>                | Alien RNA Transcript 3 x 10E10 copies/μl        | 300600-13 |  |
|                                | Alien Probe Forward Primer                      | 300602-51 |  |
|                                | Alien Probe Reverse Primer                      | 300602-52 |  |
|                                | Alien Probe (FAM)                               | 300602-53 |  |

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

|                        |  |                        |  |
|------------------------|--|------------------------|--|
| <b>Identified uses</b> | : Analytical reagent.                    |                        |  |
|                        | Alien RNA Transcript 3 x 10E10 copies/μl | 0.02 ml (20 μl)        |  |
|                        | Alien Probe Forward Primer               | 0.1 ml (2.5 μM 100 μl) |  |
|                        | Alien Probe Reverse Primer               | 0.1 ml (2.5 μM 100 μl) |  |
|                        | Alien Probe (FAM)                        | 0.1 ml (4 μM 100 μl)   |  |

|                              |   |  |  |
|------------------------------|---|--|--|
| <b>Supplier/Manufacturer</b> | : Agilent Technologies, Inc.<br>5301 Stevens Creek Blvd<br>Santa Clara, CA 95051, USA<br>800-227-9770 |  |  |
|------------------------------|---|--|--|

|   |                             |  |  |
|---|-----------------------------|--|--|
| <b>Emergency telephone number (with hours of operation)</b> | : CHEMTREC®: 1-800-424-9300 |  |  |
|---|-----------------------------|--|--|

### Section 2. Hazard identification

#### Classification of the substance or mixture

Not classified.

#### GHS label elements

|                                 |  |   |
|---------------------------------|--|---|
| <b>Signal word</b>              | Alien RNA Transcript 3 x 10E10 copies/μl | No signal word.                                   |
|                                 | Alien Probe Forward Primer               | No signal word.                                   |
|                                 | Alien Probe Reverse Primer               | No signal word.                                   |
|                                 | Alien Probe (FAM)                        | No signal word.                                   |
| <b>Hazard statements</b>        | Alien RNA Transcript 3 x 10E10 copies/μl | No known significant effects or critical hazards. |
|                                 | Alien Probe Forward Primer               | No known significant effects or critical hazards. |
|                                 | Alien Probe Reverse Primer               | No known significant effects or critical hazards. |
|                                 | Alien Probe (FAM)                        | No known significant effects or critical hazards. |
| <b>Precautionary statements</b> |  |   |
| <b>Prevention</b>               | Alien RNA Transcript 3 x 10E10 copies/μl | Not applicable.                                   |
|                                 | Alien Probe Forward Primer               | Not applicable.                                   |
|                                 | Alien Probe Reverse Primer               | Not applicable.                                   |
|                                 | Alien Probe (FAM)                        | Not applicable.                                   |
| <b>Response</b>                 | Alien RNA Transcript 3 x 10E10 copies/μl | Not applicable.                                   |
|                                 | Alien Probe Forward Primer               | Not applicable.                                   |
|                                 | Alien Probe Reverse Primer               | Not applicable.                                   |
|                                 | Alien Probe (FAM)                        | Not applicable.                                   |

## Section 2. Hazard identification

|  |   |                 |
|--|---|-----------------|
| <b>Storage</b>   | : Alien RNA Transcript 3 x<br>10E10 copies/µl | Not applicable. |
|  | Alien Probe Forward Primer                    | Not applicable. |
|  | Alien Probe Reverse Primer                    | Not applicable. |
|  | Alien Probe (FAM)                             | Not applicable. |
| <b>Disposal</b>  | : Alien RNA Transcript 3 x<br>10E10 copies/µl | Not applicable. |
|  | Alien Probe Forward Primer                    | Not applicable. |
|  | Alien Probe Reverse Primer                    | Not applicable. |
|  | Alien Probe (FAM)                             | Not applicable. |
| <b>Supplemental label elements</b>                         | : Alien RNA Transcript 3 x<br>10E10 copies/µl | None known.     |
|  | Alien Probe Forward Primer                    | None known.     |
|  | Alien Probe Reverse Primer                    | None known.     |
|  | Alien Probe (FAM)                             | None known.     |
| <b>Other hazards which do not result in classification</b> | : Alien RNA Transcript 3 x<br>10E10 copies/µl | None known.     |
|  | Alien Probe Forward Primer                    | None known.     |
|  | Alien Probe Reverse Primer                    | None known.     |
|  | Alien Probe (FAM)                             | None known.     |

## Section 3. Composition/information on ingredients

|                          |   |         |
|--------------------------|---|---------|
| <b>Substance/mixture</b> | : Alien RNA Transcript 3 x<br>10E10 copies/µl | Mixture |
|                          | Alien Probe Forward Primer                    | Mixture |
|                          | Alien Probe Reverse Primer                    | Mixture |
|                          | Alien Probe (FAM)                             | Mixture |

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

## Section 4. First-aid measures

### Description of necessary first aid measures

|                    |   |   |
|--------------------|---|---|
| <b>Eye contact</b> | : Alien RNA Transcript 3 x<br>10E10 copies/µl | 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. |
|                    | Alien Probe Forward Primer                    | 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. |
|                    | Alien Probe Reverse Primer                    | 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. |
|                    | Alien Probe (FAM)                             | 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. |
| <b>Inhalation</b>  | : Alien RNA Transcript 3 x<br>10E10 copies/µl | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.   |
|                    | Alien Probe Forward Primer                    | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.   |
|                    | Alien Probe Reverse Primer                    | 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

|                     |  |  |
|---------------------|--|--|
|                     | Alien Probe (FAM)                          | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  |
| <b>Skin contact</b> | : Alien RNA Transcript 3 x 10E10 copies/μl | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
|                     | Alien Probe Forward Primer                 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
|                     | Alien Probe Reverse Primer                 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
|                     | Alien Probe (FAM)                          | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
| <b>Ingestion</b>    | : Alien RNA Transcript 3 x 10E10 copies/μl | 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. |
|                     | Alien Probe Forward Primer                 | 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. |
|                     | Alien Probe Reverse Primer                 | 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. |
|                     | Alien Probe (FAM)                          | 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. |

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

#### Potential acute health effects

|                     |  |   |
|---------------------|--|---|
| <b>Eye contact</b>  | : Alien RNA Transcript 3 x 10E10 copies/μl | No known significant effects or critical hazards. |
|                     | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe (FAM)                          | No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : Alien RNA Transcript 3 x 10E10 copies/μl | No known significant effects or critical hazards. |
|                     | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe (FAM)                          | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Alien RNA Transcript 3 x 10E10 copies/μl | No known significant effects or critical hazards. |
|                     | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe (FAM)                          | No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : Alien RNA Transcript 3 x 10E10 copies/μl | No known significant effects or critical hazards. |
|                     | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                     | Alien Probe (FAM)                          | No known significant effects or critical hazards. |

## Section 4. First-aid measures

### Over-exposure signs/symptoms

|                     |  |                   |
|---------------------|--|-------------------|
| <b>Eye contact</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | No specific data. |
|                     | Alien Probe Forward Primer                 | No specific data. |
|                     | Alien Probe Reverse Primer                 | No specific data. |
|                     | Alien Probe (FAM)                          | No specific data. |
| <b>Inhalation</b>   | : Alien RNA Transcript 3 x 10E10 copies/µl | No specific data. |
|                     | Alien Probe Forward Primer                 | No specific data. |
|                     | Alien Probe Reverse Primer                 | No specific data. |
|                     | Alien Probe (FAM)                          | No specific data. |
| <b>Skin contact</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | No specific data. |
|                     | Alien Probe Forward Primer                 | No specific data. |
|                     | Alien Probe Reverse Primer                 | No specific data. |
|                     | Alien Probe (FAM)                          | No specific data. |
| <b>Ingestion</b>    | : Alien RNA Transcript 3 x 10E10 copies/µl | No specific data. |
|                     | Alien Probe Forward Primer                 | No specific data. |
|                     | Alien Probe Reverse Primer                 | No specific data. |
|                     | Alien Probe (FAM)                          | No specific data. |

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

|                                   |  |   |
|-----------------------------------|--|---|
| <b>Notes to physician</b>         | : Alien RNA Transcript 3 x 10E10 copies/µl | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                                   | Alien Probe Forward Primer                 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                                   | Alien Probe Reverse Primer                 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                                   | Alien Probe (FAM)                          | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b>        | : Alien RNA Transcript 3 x 10E10 copies/µl | No specific treatment.  |
|                                   | Alien Probe Forward Primer                 | No specific treatment.  |
|                                   | Alien Probe Reverse Primer                 | No specific treatment.  |
|                                   | Alien Probe (FAM)                          | No specific treatment.  |
| <b>Protection of first-aiders</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | No action shall be taken involving any personal risk or without suitable training.  |
|                                   | Alien Probe Forward Primer                 | No action shall be taken involving any personal risk or without suitable training.  |
|                                   | Alien Probe Reverse Primer                 | No action shall be taken involving any personal risk or without suitable training.  |
|                                   | Alien Probe (FAM)                          | No action shall be taken involving any personal risk or without suitable training.  |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

|   |  |   |
|---|--|---|
| <b>Suitable extinguishing media</b>                   | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | Use an extinguishing agent suitable for the surrounding fire.   |
|   | Alien Probe Forward Primer                       | Use an extinguishing agent suitable for the surrounding fire.   |
|   | Alien Probe Reverse Primer                       | Use an extinguishing agent suitable for the surrounding fire.   |
|   | Alien Probe (FAM)                                | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Unsuitable extinguishing media</b>                 | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | None known.   |
|   | Alien Probe Forward Primer                       | None known.   |
|   | Alien Probe Reverse Primer                       | None known.   |
|   | Alien Probe (FAM)                                | None known.   |
| <b>Specific hazards arising from the chemical</b>     | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | In a fire or if heated, a pressure increase will occur and the container may burst.   |
|   | Alien Probe Forward Primer                       | In a fire or if heated, a pressure increase will occur and the container may burst.   |
|   | Alien Probe Reverse Primer                       | In a fire or if heated, a pressure increase will occur and the container may burst.   |
|   | Alien Probe (FAM)                                | In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Hazardous thermal decomposition products</b>       | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | No specific data.   |
|   | Alien Probe Forward Primer                       | No specific data.   |
|   | Alien Probe Reverse Primer                       | No specific data.   |
|   | Alien Probe (FAM)                                | No specific data.   |
| <b>Special protective actions for fire-fighters</b>   | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | 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. |
|   | Alien Probe Forward Primer                       | 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. |
|   | Alien Probe Reverse Primer                       | 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. |
|   | Alien Probe (FAM)                                | 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. |
| <b>Special protective equipment for fire-fighters</b> | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   | Alien Probe Forward Primer                       | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   | Alien Probe Reverse Primer                       | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   | Alien Probe (FAM)                                | Fire-fighters should wear appropriate protective  |

## Section 5. Fire-fighting measures

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                    |  |   |
|------------------------------------|--|---|
| <b>For non-emergency personnel</b> | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | 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 spilled material. Put on appropriate personal protective equipment. |
|                                    | Alien Probe Forward Primer                       | 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 spilled material. Put on appropriate personal protective equipment. |
|                                    | Alien Probe Reverse Primer                       | 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 spilled material. Put on appropriate personal protective equipment. |
|                                    | Alien Probe (FAM)                                | 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 spilled material. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | If specialized 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".   |
|                                    | Alien Probe Forward Primer                       | If specialized 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".   |
|                                    | Alien Probe Reverse Primer                       | If specialized 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".   |
|                                    | Alien Probe (FAM)                                | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |
| <b>Environmental precautions</b>   | : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l | Avoid dispersal of spilled 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).   |
|                                    | Alien Probe Forward Primer                       | Avoid dispersal of spilled 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).   |
|                                    | Alien Probe Reverse Primer                       | Avoid dispersal of spilled material and runoff and  |

## Section 6. Accidental release measures

Alien Probe (FAM)

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### **Methods for cleaning up**

: Alien RNA Transcript 3 x 10E10 copies/µl

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.

Alien Probe Forward Primer

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.

Alien Probe Reverse Primer

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.

Alien Probe (FAM)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### **Protective measures**

: Alien RNA Transcript 3 x 10E10 copies/µl

Put on appropriate personal protective equipment (see Section 8).

Alien Probe Forward Primer

Put on appropriate personal protective equipment (see Section 8).

Alien Probe Reverse Primer

Put on appropriate personal protective equipment (see Section 8).

Alien Probe (FAM)

Put on appropriate personal protective equipment (see Section 8).

#### **Advice on general occupational hygiene**

: Alien RNA Transcript 3 x 10E10 copies/µl

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.

Alien Probe Forward Primer

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

## Section 7. Handling and storage

Alien Probe Reverse Primer

before entering eating areas. See also Section 8 for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Alien Probe (FAM)

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.

**Conditions for safe storage, including any incompatibilities** : Alien RNA Transcript 3 x 10E10 copies/ $\mu$ l

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alien Probe Forward Primer

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alien Probe Reverse Primer

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alien Probe (FAM)

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

## Section 7. Handling and storage

incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

None.

### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

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

### Appearance

## Section 9. Physical and chemical properties and safety characteristics

|  |  |                 |
|--|--|-----------------|
| <b>Physical state</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Liquid.         |
|  | Alien Probe Forward Primer                 | Liquid.         |
|  | Alien Probe Reverse Primer                 | Liquid.         |
|  | Alien Probe (FAM)                          | Liquid.         |
| <b>Color</b>   | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>Odor</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>Odor threshold</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>pH</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | 7.5             |
|  | Alien Probe Reverse Primer                 | 7.5             |
|  | Alien Probe (FAM)                          | 7.5             |
| <b>Melting point/freezing point</b>                            | : Alien RNA Transcript 3 x 10E10 copies/µl | 0°C (32°F)      |
|  | Alien Probe Forward Primer                 | 0°C (32°F)      |
|  | Alien Probe Reverse Primer                 | 0°C (32°F)      |
|  | Alien Probe (FAM)                          | 0°C (32°F)      |
| <b>Boiling point, initial boiling point, and boiling range</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | 100°C (212°F)   |
|  | Alien Probe Forward Primer                 | 100°C (212°F)   |
|  | Alien Probe Reverse Primer                 | 100°C (212°F)   |
|  | Alien Probe (FAM)                          | 100°C (212°F)   |
| <b>Flash point</b>   | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>Evaporation rate</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>Flammability</b>  | : Alien RNA Transcript 3 x 10E10 copies/µl | Not applicable. |
|  | Alien Probe Forward Primer                 | Not applicable. |
|  | Alien Probe Reverse Primer                 | Not applicable. |
|  | Alien Probe (FAM)                          | Not applicable. |
| <b>Lower and upper explosion limit/flammability limit</b>      | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available.  |
|  | Alien Probe Forward Primer                 | Not available.  |
|  | Alien Probe Reverse Primer                 | Not available.  |
|  | Alien Probe (FAM)                          | Not available.  |
| <b>Vapor pressure</b>  | :  |                 |

## Section 9. Physical and chemical properties and safety characteristics

| Ingredient name                                 | Vapor Pressure at 20°C |     |        | Vapor pressure at 50°C |      |        |
|---|------------------------|-----|--------|------------------------|------|--------|
|   | mm Hg                  | kPa | Method | mm Hg                  | kPa  | Method |
| <b>Alien RNA Transcript 3 x 10E10 copies/µl</b> |                        |     |        |                        |      |        |
| water   | 17.5                   | 2.3 | -      | 92.258                 | 12.3 | -      |
| <b>Alien Probe Forward Primer</b>               |                        |     |        |                        |      |        |
| water   | 17.5                   | 2.3 | -      | 92.258                 | 12.3 | -      |
| <b>Alien Probe Reverse Primer</b>               |                        |     |        |                        |      |        |
| water   | 17.5                   | 2.3 | -      | 92.258                 | 12.3 | -      |
| <b>Alien Probe (FAM)</b>                        |                        |     |        |                        |      |        |
| water   | 17.5                   | 2.3 | -      | 92.258                 | 12.3 | -      |

**Relative vapor density** : Alien RNA Transcript 3 x 10E10 copies/µl Not available.  
 Alien Probe Forward Primer Not available.  
 Alien Probe Reverse Primer Not available.  
 Alien Probe (FAM) Not available.

**Relative density** : Alien RNA Transcript 3 x 10E10 copies/µl Not available.  
 Alien Probe Forward Primer Not available.  
 Alien Probe Reverse Primer Not available.  
 Alien Probe (FAM) Not available.

| <b>Media</b>                                    | <b>Result</b> |
|---|---------------|
| <b>Alien RNA Transcript 3 x 10E10 copies/µl</b> |               |
| water   | Soluble       |
| <b>Alien Probe Forward Primer</b>               |               |
| water   | Soluble       |
| <b>Alien Probe Reverse Primer</b>               |               |
| water   | Soluble       |
| <b>Alien Probe (FAM)</b>                        |               |
| water   | Soluble       |

**Partition coefficient: n-octanol/water** : Alien RNA Transcript 3 x 10E10 copies/µl Not applicable.  
 Alien Probe Forward Primer Not applicable.  
 Alien Probe Reverse Primer Not applicable.  
 Alien Probe (FAM) Not applicable.

**Auto-ignition temperature** : Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Decomposition temperature** : Alien RNA Transcript 3 x 10E10 copies/μl Not available.  
 Alien Probe Forward Primer Not available.  
 Alien Probe Reverse Primer Not available.  
 Alien Probe (FAM) Not available.

**Viscosity** : Alien RNA Transcript 3 x 10E10 copies/μl Not available.  
 Alien Probe Forward Primer Not available.  
 Alien Probe Reverse Primer Not available.  
 Alien Probe (FAM) Not available.

### Particle characteristics

**Median particle size** : Alien RNA Transcript 3 x 10E10 copies/μl Not applicable.  
 Alien Probe Forward Primer Not applicable.  
 Alien Probe Reverse Primer Not applicable.  
 Alien Probe (FAM) Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : Alien RNA Transcript 3 x 10E10 copies/μl No specific test data related to reactivity available for this product or its ingredients.  
 Alien Probe Forward Primer No specific test data related to reactivity available for this product or its ingredients.  
 Alien Probe Reverse Primer No specific test data related to reactivity available for this product or its ingredients.  
 Alien Probe (FAM) No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : Alien RNA Transcript 3 x 10E10 copies/μl The product is stable.  
 Alien Probe Forward Primer The product is stable.  
 Alien Probe Reverse Primer The product is stable.  
 Alien Probe (FAM) The product is stable.

**Possibility of hazardous reactions** : Alien RNA Transcript 3 x 10E10 copies/μl Under normal conditions of storage and use, hazardous reactions will not occur.  
 Alien Probe Forward Primer Under normal conditions of storage and use, hazardous reactions will not occur.  
 Alien Probe Reverse Primer Under normal conditions of storage and use, hazardous reactions will not occur.  
 Alien Probe (FAM) Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Alien RNA Transcript 3 x 10E10 copies/μl No specific data.  
 Alien Probe Forward Primer No specific data.  
 Alien Probe Reverse Primer No specific data.  
 Alien Probe (FAM) No specific data.

**Incompatible materials** : Alien RNA Transcript 3 x 10E10 copies/μl May react or be incompatible with oxidizing materials.  
 Alien Probe Forward Primer May react or be incompatible with oxidizing materials.  
 Alien Probe Reverse Primer May react or be incompatible with oxidizing materials.  
 Alien Probe (FAM) May react or be incompatible with oxidizing materials.

## Section 10. Stability and reactivity

|   |  |  |
|---|--|--|
| <b>Hazardous decomposition products</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|   | Alien Probe Forward Primer                 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|   | Alien Probe Reverse Primer                 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|   | Alien Probe (FAM)                          | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

|   |  |                |
|---|--|----------------|
| <b>Information on the likely routes of exposure</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available. |
|   | Alien Probe Forward Primer                 | Not available. |
|   | Alien Probe Reverse Primer                 | Not available. |
|   | Alien Probe (FAM)                          | Not available. |

### Potential acute health effects

|                    |  |   |
|--------------------|--|---|
| <b>Eye contact</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | No known significant effects or critical hazards. |
|                    | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                    | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                    | Alien Probe (FAM)                          | No known significant effects or critical hazards. |

## Section 11. Toxicological information

|                     |  |  |
|---------------------|--|--|
| <b>Inhalation</b>   | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

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

|                     |  |  |
|---------------------|--|--|
| <b>Eye contact</b>  | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No specific data.<br>No specific data.<br>No specific data.<br>No specific data. |
| <b>Inhalation</b>   | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No specific data.<br>No specific data.<br>No specific data.<br>No specific data. |
| <b>Skin contact</b> | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No specific data.<br>No specific data.<br>No specific data.<br>No specific data. |
| <b>Ingestion</b>    | : Alien RNA Transcript 3 x<br>10E10 copies/µl<br>Alien Probe Forward Primer<br>Alien Probe Reverse Primer<br>Alien Probe (FAM) | No specific data.<br>No specific data.<br>No specific data.<br>No specific data. |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : Alien RNA Transcript 3 x  
10E10 copies/µl  
Alien Probe Forward Primer  
Alien Probe Reverse Primer  
Alien Probe (FAM)

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## Section 11. Toxicological information

|                              |  |   |
|------------------------------|--|---|
| <b>Carcinogenicity</b>       | : Alien RNA Transcript 3 x 10E10 copies/µl | No known significant effects or critical hazards. |
|                              | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe (FAM)                          | No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : Alien RNA Transcript 3 x 10E10 copies/µl | No known significant effects or critical hazards. |
|                              | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe (FAM)                          | No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | : Alien RNA Transcript 3 x 10E10 copies/µl | No known significant effects or critical hazards. |
|                              | Alien Probe Forward Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe Reverse Primer                 | No known significant effects or critical hazards. |
|                              | Alien Probe (FAM)                          | No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**TDG / IMDG / IATA** : Not regulated.

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

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

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

### 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

**Canada** : All components are listed or exempted.

**United States** : All components are active or exempted.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 07/15/2024

**Date of previous issue** : 07/20/2021

**Version** : 8

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 UN = United Nations

### Procedure used to derive the classification

## Section 16. Other information

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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