Section 1. Identification

1.1 Product identifier
Product name: RNA Spike In Kit - Single Color, Part Number 5188-5282
Part no. (chemical kit): 5188-5282
Part no.: One Color Spike-Mix 5972-3563
Dilution Buffer 5972-3562
Validation date: 4/16/2019

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical reagent.
For Research Use Only. Not for use in diagnostic procedures.
One Color Spike-Mix 0.01 ml
Dilution Buffer 1.2 ml

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status: One Color Spike-Mix

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Dilution Buffer

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture
Not classified.

Ingredients of unknown toxicity: One Color Spike-Mix
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: 10 - 30%

2.2 GHS label elements
Signal word:  

Date of issue: 04/16/2019
Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>One Color Spike-Mix</th>
<th>Dilution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard statements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td><strong>Precautionary statements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Prevention</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Disposal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Supplemental label elements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>None known.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

2.3 Other hazards

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>One Color Spike-Mix</th>
<th>Dilution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard statements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>None known.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Section 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>One Color Spike-Mix</th>
<th>Dilution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Color Spike-Mix</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
</tbody>
</table>

Date of issue: 04/16/2019
Section 4. First aid measures

Ingestion : One Color Spike-Mix
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Dilution Buffer
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed
Potential acute health effects

Eye contact : One Color Spike-Mix
No known significant effects or critical hazards.

Dilution Buffer
No known significant effects or critical hazards.

Inhalation : One Color Spike-Mix
No known significant effects or critical hazards.

Dilution Buffer
No known significant effects or critical hazards.

Skin contact : One Color Spike-Mix
No known significant effects or critical hazards.

Dilution Buffer
No known significant effects or critical hazards.

Ingestion : One Color Spike-Mix
No known significant effects or critical hazards.

Dilution Buffer
No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : One Color Spike-Mix
No specific data.

Dilution Buffer
No specific data.

Inhalation : One Color Spike-Mix
No specific data.

Dilution Buffer
No specific data.

Skin contact : One Color Spike-Mix
No specific data.

Dilution Buffer
No specific data.

Ingestion : One Color Spike-Mix
No specific data.

Dilution Buffer
No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician : One Color Spike-Mix
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Dilution Buffer
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : One Color Spike-Mix
No specific treatment.

Dilution Buffer
No specific treatment.

Protection of first-aiders : One Color Spike-Mix
No action shall be taken involving any personal risk or without suitable training.

Dilution Buffer
No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)
Section 5. Fire-fighting measures

5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>One Color Spike-Mix</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>One Color Spike-Mix</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>None known.</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>One Color Spike-Mix</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>One Color Spike-Mix</th>
<th>Decomposition products may include the following materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>carbon dioxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>carbon monoxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>metal oxide/oxides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No specific data.</td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>One Color Spike-Mix</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>One Color Spike-Mix</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>One Color Spike-Mix</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Buffer</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

For emergency responders: One Color Spike-Mix

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".

6.2 Environmental precautions: One Color Spike-Mix

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).

Dilution Buffer

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

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: One Color Spike-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.

Dilution 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: One Color Spike-Mix

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

Dilution Buffer

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

Advice on general occupational hygiene: One Color Spike-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.

Dilution 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.

Date of issue: 04/16/2019
Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Conditions for safe storage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Color Spike-Mix</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

7.3 Specific end use(s)

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>One Color Spike-Mix</th>
<th>Industrial applications, Professional applications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial sector specific solutions</td>
<td>One Color Spike-Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Dilution Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Environmental exposure controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</td>
<td>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.</td>
</tr>
</tbody>
</table>

Hygiene measures

<table>
<thead>
<tr>
<th>Hygiene measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
Section 8. Exposure controls/personal protection

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

9.1 Information on basic physical and chemical properties

**Appearance**

Physical state: One Color Spike-Mix Liquid.

Color: One Color Spike-Mix Not available.

Odor: One Color Spike-Mix Not available.

Odor threshold: One Color Spike-Mix Not available.

pH: One Color Spike-Mix 6.4

Melting point: One Color Spike-Mix Not available.

Boiling point: One Color Spike-Mix 0°C (32°F)

Flash point: One Color Spike-Mix Not available.

Evaporation rate: One Color Spike-Mix Not available.

Flammability (solid, gas): One Color Spike-Mix Not applicable.

Lower and upper explosive (flammable) limits: One Color Spike-Mix Not available.

Vapor pressure: One Color Spike-Mix Not available.

Vapor density: One Color Spike-Mix Not available.

Relative density: One Color Spike-Mix Not available.
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>One Color Spike-Mix</th>
<th>Dilution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>Soluble in cold water and hot water.</td>
<td>Easily soluble in cold water and hot water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

10.1 Reactivity : One Color Spike-Mix | No specific test data related to reactivity available for this product or its ingredients.
Dilution Buffer | No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : One Color Spike-Mix
Dilution Buffer | The product is stable.

10.3 Possibility of hazardous reactions : One Color Spike-Mix
Dilution Buffer | Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : One Color Spike-Mix
Dilution Buffer | No specific data.

10.5 Incompatible materials : One Color Spike-Mix
Dilution Buffer | May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products : One Color Spike-Mix
Dilution Buffer | 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
Not available.

Irritation/Corrosion
Not available.

Sensitization
Not available.
Section 11. Toxicological information

**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.

**Information on the likely routes of exposure**
: One Color Spike-Mix  
: Not available.
: Dilution Buffer  
: Not available.

**Potential acute health effects**

**Eye contact** : One Color Spike-Mix  
: No known significant effects or critical hazards.
: Dilution Buffer  
: No known significant effects or critical hazards.

**Inhalation** : One Color Spike-Mix  
: No known significant effects or critical hazards.
: Dilution Buffer  
: No known significant effects or critical hazards.

**Skin contact** : One Color Spike-Mix  
: No known significant effects or critical hazards.
: Dilution Buffer  
: No known significant effects or critical hazards.

**Ingestion** : One Color Spike-Mix  
: No known significant effects or critical hazards.
: Dilution Buffer  
: No known significant effects or critical hazards.

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

**Eye contact** : One Color Spike-Mix  
: No specific data.
: Dilution Buffer  
: No specific data.

**Inhalation** : One Color Spike-Mix  
: No specific data.
: Dilution Buffer  
: No specific data.

**Skin contact** : One Color Spike-Mix  
: No specific data.
: Dilution Buffer  
: No specific data.

**Ingestion** : One Color Spike-Mix  
: No specific data.
: Dilution Buffer  
: 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**
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Category</th>
<th>Spike-Mix</th>
<th>Dilution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Developmental effects</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Fertility effects</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity

Acute toxicity estimates
N/A

Section 12. Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil

| Soil/water partition coefficient ($K_{OC}$) | Not available. |

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / 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 Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304 Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312 Classification : One Color Spike-Mix Dilution Buffer

Composition/information on ingredients

No products were found.

Date of issue : 04/16/2019
Section 15. Regulatory information

State regulations

Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

UNCE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list

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

Section 16. Other information

History

Date of issue : 04/16/2019
Date of previous issue : 10/30/2017
Version : 6
Section 16. Other information

Key to abbreviations:

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- N/A = Not available
- UN = United Nations

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.