Section 1. Identification

1.1 Product identifier

Product name: Kit MUB Solutions, Part Number 7160018
Part no. (chemical kit): 7160018
Part no.: 100 nM MUB in CBB Buffer 7160043
0.05 M CBB Buffer 7160046
Validation date: 3/12/2021

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

Material uses: Analytical chemistry.
100 nM MUB in CBB Buffer 10 ml
0.05 M CBB Buffer 30 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: 100 nM MUB in CBB 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.

0.05 M CBB 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.

2.2 GHS label elements

Signal word: 100 nM MUB in CBB Buffer No signal word.
0.05 M CBB Buffer No signal word.

Hazard statements: 100 nM MUB in CBB Buffer No known significant effects or critical hazards.
0.05 M CBB Buffer No known significant effects or critical hazards.

Precautionary statements

Prevention: 100 nM MUB in CBB Buffer Not applicable.
0.05 M CBB Buffer Not applicable.

Response: 100 nM MUB in CBB Buffer Not applicable.
0.05 M CBB Buffer Not applicable.

Storage: 100 nM MUB in CBB Buffer Not applicable.
0.05 M CBB Buffer Not applicable.

Disposal: 100 nM MUB in CBB Buffer Not applicable.
0.05 M CBB Buffer Not applicable.

Date of issue: 03/12/2021
Section 2. Hazards identification

**Supplemental label elements**
- **100 nM MUB in CBB Buffer**: None known.
- **0.05 M CBB Buffer**: None known.

### 2.3 Other hazards

**Hazards not otherwise classified**
- **100 nM MUB in CBB Buffer**: None known.
- **0.05 M CBB Buffer**: None known.

Section 3. Composition/information on ingredients

**Substance/mixture**
- **100 nM MUB in CBB Buffer**: Mixture
- **0.05 M CBB Buffer**: Mixture

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

**Eye contact**
- **100 nM MUB in CBB 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.
- **0.05 M CBB 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.

**Inhalation**
- **100 nM MUB in CBB Buffer**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **0.05 M CBB Buffer**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
- **100 nM MUB in CBB Buffer**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **0.05 M CBB Buffer**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**
- **100 nM MUB in CBB 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.
- **0.05 M CBB 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**
- **100 nM MUB in CBB Buffer**: No known significant effects or critical hazards.
- **0.05 M CBB Buffer**: No known significant effects or critical hazards.

**Inhalation**
- **100 nM MUB in CBB Buffer**: No known significant effects or critical hazards.
- **0.05 M CBB Buffer**: No known significant effects or critical hazards.

**Skin contact**
- **100 nM MUB in CBB Buffer**: No known significant effects or critical hazards.
- **0.05 M CBB Buffer**: No known significant effects or critical hazards.

Date of issue: 03/12/2021
Section 4. First aid measures

**Ingestion**
- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**
- **Eye contact**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - No specific data.
- **Inhalation**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - No specific data.
- **Skin contact**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - No specific data.
- **Ingestion**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - No specific data.

**Protection of first-aiders**
- No action shall be taken involving any personal risk or without suitable training.

**Notes to physician**
- 100 nM MUB in CBB Buffer
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 0.05 M CBB Buffer
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

**5.1 Extinguishing media**
- **Suitable extinguishing media**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - Use an extinguishing agent suitable for the surrounding fire.
- **Unsuitable extinguishing media**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - None known.

**5.2 Special hazards arising from the substance or mixture**
- **Specific hazards arising from the chemical**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - In a fire or if heated, a pressure increase will occur and the container may burst.
- **Hazardous thermal decomposition products**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB Buffer
  - No specific data.

**5.3 Advice for firefighters**
- **Special protective actions for fire-fighters**
  - 100 nM MUB in CBB Buffer
  - 0.05 M CBB 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.
Section 5. Fire-fighting measures

Special protective equipment for fire-fighters: 100 nM MUB in CBB Buffer

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

0.05 M CBB Buffer

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

- 100 nM MUB in CBB 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 spilled material. Put on appropriate personal protective equipment.

- 0.05 M CBB 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 spilled material. Put on appropriate personal protective equipment.

For emergency responders:

- 100 nM MUB in CBB Buffer

- 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".

- 0.05 M CBB Buffer

- 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:

- 100 nM MUB in CBB Buffer

- 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).

- 0.05 M CBB Buffer

- 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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:

- 100 nM MUB in CBB Buffer

- Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, 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.

- 0.05 M CBB Buffer

- Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, 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**
- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

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

**Advice on general occupational hygiene**
- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

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

7.2 Conditions for safe storage, including any incompatibilities

- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

Store in accordance with local regulations. Shelf life: 9 months. 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.

7.3 Specific end use(s)

**Recommendations**
- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

Industrial applications, Professional applications.

**Industrial sector specific solutions**
- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

Not available.

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
Section 8. Exposure controls/personal protection

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

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>100 nM MUB in CBB Buffer</th>
<th>0.05 M CBB Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Clear.</td>
<td>Clear.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>9.6</td>
<td>9.6</td>
</tr>
<tr>
<td>Melting point</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

Vapor pressure
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Vapor density
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Relative density
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Solubility
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Auto-ignition temperature
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Decomposition temperature
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Viscosity
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Not available.

Section 10. Stability and reactivity

10.1 Reactivity
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
The product is stable.

10.3 Possibility of hazardous reactions
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
No specific data.

10.5 Incompatible materials
: 100 nM MUB in CBB Buffer
 0.05 M CBB Buffer
May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products
: 100 nM MUB in CBB Buffer
 0.05 M CBB 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.

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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**

<table>
<thead>
<tr>
<th>Route</th>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
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</tr>
<tr>
<td>Ingestion</td>
<td>100 nM MUB in CBB Buffer</td>
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</tr>
<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>0.05 M CBB Buffer</td>
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</tr>
</tbody>
</table>

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
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<tr>
<td>Inhalation</td>
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<td>0.05 M CBB Buffer</td>
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<td>Skin contact</td>
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<td>0.05 M CBB Buffer</td>
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<tr>
<td>Ingestion</td>
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<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>100 nM MUB in CBB Buffer</td>
<td>No specific data.</td>
</tr>
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<td></td>
<td>0.05 M CBB Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Inhalation</td>
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<tr>
<td>Skin contact</td>
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<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>100 nM MUB in CBB Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>0.05 M CBB Buffer</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
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<td>0.05 M CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>0.05 M CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Mutagenicity**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 nM MUB in CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>0.05 M CBB Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

#### Reproductive toxicity

- 100 nM MUB in CBB Buffer
- 0.05 M CBB Buffer

No known significant effects or critical hazards.

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<sub>OC</sub>): 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.

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

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

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

U.S. Federal regulations

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: 100 nM MUB in CBB Buffer

0.05 M CBB Buffer

Not applicable.

Composition/information on ingredients

No products were found.

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


Montreal Protocol: Not listed.


Date of issue: 03/12/2021
Section 15. Regulatory information

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**
Not listed.

**Inventory list**

<table>
<thead>
<tr>
<th>Country</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): All components are listed or exempted.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): All components are listed or exempted.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Philippines</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Thailand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are active or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>All components are listed or exempted.</td>
</tr>
</tbody>
</table>

Section 16. Other information

**History**

| Date of issue       | 03/12/2021                                                                 |
| Date of previous issue | No previous validation                                                        |
| Version             | 1                                                                           |

**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**

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<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
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*Indicates information that has changed from previously issued version.*

**Notice to reader**

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