Section 1. Identification

1.1 Product identifier

Product name: Enterprise Edition Caffeine Extended Standards Kit, Part Number 5190-0579

Part No. (Chemical Kit): 5190-0579

Part No.

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) 5190-0488-1
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL) 5190-0488-2
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL) 5190-0488-3
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL) 5190-0488-4
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL) 5190-0488-5
- Enterprise Caffeine Standard – Cal #6 (50 ug/mL) 5190-0488-6
- Enterprise Caffeine Standard – Cal #7 (100 ug/mL) 5190-0488-7
- Enterprise Caffeine Standard – Cal #8 (200 ug/mL) 5190-0488-8
- Enterprise Caffeine Standard – Cal #9 (800 ug/mL) 5190-0488-9

Validation date: 5/12/2017

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

Material uses:

- Analytical chemistry.
  10 x 2 ml ampoule
  - Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #2 (1 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #3 (2 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #4 (5 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #5 (25 ug/mL) 2 x 2 ml
  - Enterprise Caffeine Standard – Cal #6 (50 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #7 (100 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #8 (200 ug/mL) 1 x 2 ml
  - Enterprise Caffeine Standard – Cal #9 (800 ug/mL) 1 x 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

Date of issue: 05/12/2017
## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th>OSHA/HCS status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

**Classification of the substance or mixture**

Not classified.

**Date of issue:** 05/12/2017
### Section 2. Hazards identification

#### 2.2 GHS label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statements</th>
<th>Precautionary statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) No known significant effects or critical hazards.</td>
<td>Prevention: Not applicable.</td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>No signal word.</td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL) No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

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## Section 2. Hazards identification

**Response**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not applicable. |

**Storage**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not applicable. |

**Disposal**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not applicable. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not applicable. |
## Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>None known.</td>
</tr>
</tbody>
</table>

### 2.3 Other hazards

#### Hazards not otherwise classified

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>None known.</td>
</tr>
</tbody>
</table>

## Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

**Date of issue:** 05/12/2017
Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | 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

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Enterprise Caffeine Standard – | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |

Date of issue: 05/12/2017
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Cal #5 (25 ug/mL)</th>
<th>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### Skin contact:

- **Cal #1 (0.5 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #2 (1 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #3 (2 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #4 (5 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #5 (25 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #6 (50 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #7 (100 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #8 (200 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Cal #9 (800 ug/mL)**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

### Ingestion:

- **Cal #1 (0.5 ug/mL)**: 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.
- **Cal #2 (1 ug/mL)**: 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.
- **Cal #3 (2 ug/mL)**: 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.
Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
  - No known significant effects or critical hazards.

Quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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.

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.

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.

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.

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.

Eye contact

Potential acute health effects

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
  - No known significant effects or critical hazards.
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
  - No known significant effects or critical hazards.
## Section 4. First aid measures

| Inhalation | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | No known significant effects or critical hazards. |
| Ingestion | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | No known significant effects or critical hazards. |

| Skin contact | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No known significant effects or critical hazards. |
| | Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | No known significant effects or critical hazards. |

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### Section 4. First aid measures

**Cal #8 (200 ug/mL)**  
Enterprise Caffeine Standard – No known significant effects or critical hazards.  
**Cal #9 (800 ug/mL)**

**Over-exposure signs/symptoms**

| Eye contact | Cal #1 (0.5 ug/mL) | No specific data.  
| Cal #2 (1 ug/mL) | No specific data.  
| Cal #3 (2 ug/mL) | No specific data.  
| Cal #4 (5 ug/mL) | No specific data.  
| Cal #5 (25 ug/mL) | No specific data.  
| Cal #6 (50 ug/mL) | No specific data.  
| Cal #7 (100 ug/mL) | No specific data.  
| Cal #8 (200 ug/mL) | No specific data.  
| Cal #9 (800 ug/mL) | No specific data.  

**Inhalation**

| Cal #1 (0.5 ug/mL) | No specific data.  
| Cal #2 (1 ug/mL) | No specific data.  
| Cal #3 (2 ug/mL) | No specific data.  
| Cal #4 (5 ug/mL) | No specific data.  
| Cal #5 (25 ug/mL) | No specific data.  
| Cal #6 (50 ug/mL) | No specific data.  
| Cal #7 (100 ug/mL) | No specific data.  
| Cal #8 (200 ug/mL) | No specific data.  
| Cal #9 (800 ug/mL) | No specific data.  

**Skin contact**

| Cal #1 (0.5 ug/mL) | No specific data.  
| Cal #2 (1 ug/mL) | No specific data.  
| Cal #3 (2 ug/mL) | No specific data.  
| Cal #4 (5 ug/mL) | No specific data.  
| Cal #5 (25 ug/mL) | No specific data.  
| Cal #6 (50 ug/mL) | No specific data.  
| Cal #7 (100 ug/mL) | No specific data.  
| Cal #8 (200 ug/mL) | No specific data.  
| Cal #9 (800 ug/mL) | No specific data.  

### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

#### Notes to physician

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

#### Specific treatments

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>No specific treatment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

Protection of first-aiders:

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
- Enterprise Caffeine Standard – Cal #6 (50 ug/mL)
- Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
- Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
- Enterprise Caffeine Standard – Cal #9 (800 ug/mL)

No specific treatment.

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

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
- Enterprise Caffeine Standard – Cal #6 (50 ug/mL)
- Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
- Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
- Enterprise Caffeine Standard – Cal #9 (800 ug/mL)

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:

- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)

None known.

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## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Cal #5 (25 ug/mL)</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>None known.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</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>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td></td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</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>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td></td>
</tr>
</tbody>
</table>

Date of issue: 05/12/2017
## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</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>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</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>

**Special protective equipment for fire-fighters**

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</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>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</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>
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<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</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>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</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>

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Section 5. Fire-fighting measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>
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</table>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<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:

Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
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".

Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
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".

Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
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".

Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
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".

Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
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".

Enterprise Caffeine Standard – Cal #6 (50 ug/mL)
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".

Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
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".

Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
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".

Enterprise Caffeine Standard – Cal #9 (800 ug/mL)
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:

Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
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).

Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
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).

Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
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).

Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
## Section 6. Accidental release measures

| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 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). |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 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). |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 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). |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 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). |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | 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**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 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 6. Accidental release measures

Enterprise Caffeine Standard – Cal #6 (50 ug/mL)
- Disposal: Dispose of via a licensed waste disposal contractor.
- 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.

Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
- 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.

Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
- 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.

Enterprise Caffeine Standard – Cal #9 (800 ug/mL)
- 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
- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)
- Enterprise Caffeine Standard – Cal #3 (2 ug/mL)
- Enterprise Caffeine Standard – Cal #4 (5 ug/mL)
- Enterprise Caffeine Standard – Cal #5 (25 ug/mL)
- Enterprise Caffeine Standard – Cal #6 (50 ug/mL)
- Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
- Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
- Enterprise Caffeine Standard – Cal #9 (800 ug/mL)

Advice on general occupational hygiene
- Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/mL)

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.

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

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### Section 7. Handling and storage

| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 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. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | 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. |
### Section 7. Handling and storage

<table>
<thead>
<tr>
<th>7.2 Conditions for safe storage, including any incompatibilities</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</strong></td>
<td>Store between the following temperatures: 15 to 30°C (59 to 86°F). 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>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</strong></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>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</strong></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>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</strong></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>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</strong></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>
</tr>
<tr>
<td><strong>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</strong></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>
</tr>
</tbody>
</table>
Section 7. Handling and storage

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.

Enterprise Caffeine Standard – Cal #7 (100 ug/mL)
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.

Enterprise Caffeine Standard – Cal #8 (200 ug/mL)
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.

Enterprise Caffeine Standard – Cal #9 (800 ug/mL)
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.

7.3 Specific end use(s): Industrial applications, Professional applications.

Recommendations

Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL) Industrial applications, Professional applications.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Industrial applications, Professional applications.

Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>Cal #8 (200 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
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<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
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</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</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: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Eye/face protection: 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.
Section 8. Exposure controls/personal protection

**Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state**: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL) Liquid.
Enterprise Caffeine Standard – Cal #9 (800 ug/mL) Liquid.

**Color**: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL) Colorless.
Enterprise Caffeine Standard – Cal #9 (800 ug/mL) Colorless.
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Odor</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor threshold</td>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
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</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
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</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
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</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
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<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
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</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
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<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
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<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
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<td></td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
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<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
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<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
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<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</tbody>
</table>

**Date of issue:** 05/12/2017
### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melting point</strong></td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td>0°C (32°F)</td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
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</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
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<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</table>
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</th>
<th>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
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<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
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</tbody>
</table>
### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Vapor pressure</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
<th>2.3 kPa (17.542 mm Hg) [room temperature]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
</tr>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>2.3 kPa (17.542 mm Hg) [room temperature]</td>
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</table>

<table>
<thead>
<tr>
<th>Vapor density</th>
<th>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</tr>
</tbody>
</table>

| Relative density | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 1 |
|                 | Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | 1 |
### Section 9. Physical and chemical properties

#### Solubility

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Easily soluble in the following materials: cold water and hot water. |

#### Partition coefficient: n-octanol/water

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not available. |

#### Auto-ignition temperature

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not available. |
Section 9. Physical and chemical properties

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<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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Section 10. Stability and reactivity

10.1 Reactivity

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<td></td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</table>
### Section 10. Stability and reactivity

#### 10.2 Chemical stability

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</tr>
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<td>5 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
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<tr>
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<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
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<td>200 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
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<tr>
<td>800 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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</tbody>
</table>

#### 10.3 Possibility of hazardous reactions

<table>
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<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
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<td>5 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<tr>
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</tr>
<tr>
<td>50 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
</tr>
<tr>
<td>100 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
</tr>
<tr>
<td>200 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
</tr>
<tr>
<td>800 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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#### 10.4 Conditions to avoid

<table>
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<tr>
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<th>Conditions to avoid</th>
</tr>
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<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
</tr>
<tr>
<td>2 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
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<tr>
<td>5 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
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<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
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<td>50 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
</tr>
<tr>
<td>100 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
</tr>
<tr>
<td>200 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
</tr>
<tr>
<td>800 ug/mL</td>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

10.5 Incompatible materials

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | May react or be incompatible with oxidizing materials. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | May react or be incompatible with oxidizing materials. |

10.6 Hazardous decomposition products

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | 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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**Mutagenicity**
Not available.

**Carcinogenicity**
Not available.

**Reproductive toxicity**
Not available.

**Teratogenicity**
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**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | Not available. |

**Potential acute health effects**

**Eye contact**

| Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No known significant effects or critical hazards. |
| Enterprise Caffeine Standard – Cal #9 (800 ug/mL) | No known significant effects or critical hazards. |

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### Section 11. Toxicological information

**Inhalation**

<table>
<thead>
<tr>
<th>Enterprise Caffeine Standard</th>
<th>Cal #1 (0.5 ug/mL)</th>
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</thead>
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<td>Enterprise Caffeine Standard</td>
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<td>No known significant effects or critical hazards.</td>
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<td>Enterprise Caffeine Standard</td>
<td>Cal #3 (2 ug/mL)</td>
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<tr>
<td>Enterprise Caffeine Standard</td>
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<td>Enterprise Caffeine Standard</td>
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<td>Enterprise Caffeine Standard</td>
<td>Cal #7 (100 ug/mL)</td>
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</tr>
<tr>
<td>Enterprise Caffeine Standard</td>
<td>Cal #8 (200 ug/mL)</td>
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</tr>
<tr>
<td>Enterprise Caffeine Standard</td>
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**Skin contact**

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<td>Enterprise Caffeine Standard</td>
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**Ingestion**

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

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# Section 11. Toxicological information

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### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

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

**Short term exposure**

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential delayed effects</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

**Long term exposure**

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential delayed effects</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

### Potential chronic health effects

**General**

<table>
<thead>
<tr>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
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<tr>
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</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard –</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Date of issue:** 05/12/2017
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mutagenicity</th>
<th>Teratogenicity</th>
<th>Developmental effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cal #5 (25 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
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<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
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<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
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<td>No known significant effects or critical hazards.</td>
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<td>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</td>
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<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
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<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Date of issue:** 05/12/2017
Section 11. Toxicological information

**Fertility effects**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cal #7 (100 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Enterprise Caffeine Standard – Cal #9 (800 ug/mL)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Numerical measures of toxicity**

**Acute toxicity estimates**

Not available.

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.

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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: 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 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

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Section 15. Regulatory information

No products were found.

SARA 304 RQ
SARA 311/312
Classification

None of the components are listed.

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

None of the components are listed.

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

Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia: 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.

Date of issue: 05/12/2017
### Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<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>Malaysia</td>
<td>Not determined.</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>All components are listed or exempted.</td>
</tr>
<tr>
<td>Thailand</td>
<td>Not determined.</td>
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<tr>
<td>Turkey</td>
<td>Not determined.</td>
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<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

### Section 16. Other information

#### History

- **Date of issue**: 05/12/2017
- **Date of previous issue**: 07/30/2015
- **Version**: 3

> Indicates information that has changed from previously issued version.

#### Notice to reader

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