

# SAFETY DATA SHEET



## Enterprise Edition Caffeine Standards Kit

### Section 1. Identification

**1.1 Product identifier**

**Product name** : Enterprise Edition Caffeine Standards Kit

**Part no. (chemical kit)** : 5190-0488

**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

**Validation date** : 5/22/2024

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

**Identified uses** :

- Reagents and Standards for Analytical Chemistry Laboratory Use
- Enterprise Caffeine Standard – Cal #1 (0.5 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #2 (1 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #3 (2 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #4 (5 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #5 (25 ug/ 2 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #6 (50 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #7 (100 ug/ 1 x 2 ml mL)
- Enterprise Caffeine Standard – Cal #8 (200 ug/ 1 x 2 ml mL)

**1.3 Details of the supplier of the safety data sheet**

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

**1.4 Emergency telephone number**

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b>	:	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	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.
		Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

Not classified.

### 2.2 GHS label elements

**Signal word** :

## Section 2. Hazards identification

	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No signal word.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No signal word.
<b>Hazard statements</b>	: 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.
<b>Precautionary statements</b>		
<b>Prevention</b>	: 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.
<b>Response</b>	: 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.

## Section 2. Hazards identification

	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.
<b>Storage</b>	: 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.
<b>Disposal</b>	: 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.
<b>Supplemental label elements</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	None known.

### 2.3 Other hazards

## Section 2. Hazards identification

<b>Hazards not otherwise classified</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	None known.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Mixture
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Mixture

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	: 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.

## Section 4. First aid measures

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.

### 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 –  
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.

Enterprise Caffeine Standard –  
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.

Enterprise Caffeine Standard –  
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.

Enterprise Caffeine Standard –  
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.

### Skin contact

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Enterprise Caffeine Standard –

Flush contaminated skin with plenty of water.

## Section 4. First aid measures

### Ingestion

Cal #8 (200 ug/mL)	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: 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.
<b>Inhalation</b>	: 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.
<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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

Cal #6 (50 ug/mL) Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No known significant effects or critical hazards. No known significant effects or critical hazards.
---	--

### Over-exposure signs/symptoms

<b>Eye contact</b>	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

## Section 4. First aid measures

<b>Ingestion</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No specific data.

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

<b>Notes to physician</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

<b>Specific treatments</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No specific treatment.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No specific treatment.

## Section 4. First aid measures

<b>Protection of first-aiders</b>	: 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)	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
-----------------------------------	--	--

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: 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)	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: 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)	None known. None known. None known. None known. None known. None known. None known. None known.

### 5.2 Special hazards arising from the substance or mixture

## Section 5. Fire-fighting measures

<b>Specific hazards arising from the chemical</b>	: 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)	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>5.3 Advice for firefighters</b>		
<b>Special protective actions for fire-fighters</b>	: 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 –	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. 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. 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. 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. 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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

	Cal #7 (100 ug/mL)	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	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

<b>For non-emergency personnel</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	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.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	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.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	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

## Section 6. Accidental release measures

Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	appropriate personal protective equipment. 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.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	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.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	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.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	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.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders :</b> 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 –	If specialized clothing is required to deal with the

## Section 6. Accidental release measures

Cal #8 (200 ug/mL)

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

Enterprise Caffeine Standard – Cal #5 (25 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 #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).

### 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 –

Stop leak if without risk. Move containers from spill

## Section 6. Accidental release measures

Cal #3 (2 ug/mL)	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.
Enterprise Caffeine Standard – Cal #6 (50 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 #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.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	:	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
		Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Put on appropriate personal protective equipment (see Section 8).



## Section 7. Handling and storage

### Advice on general occupational hygiene

: Enterprise Caffeine Standard – Cal #1 (0.5 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 #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.
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.

## Section 7. Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

: Enterprise Caffeine Standard – Cal #1 (0.5 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 #2 (1 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 #3 (2 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 #4 (5 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 #5 (25 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 #6 (50 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

## Section 7. Handling and storage

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

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.

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.

### 7.3 Specific end use(s)

#### 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.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Industrial applications, Professional applications.

#### Industrial sector specific solutions

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.

## Section 7. Handling and storage

Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Not available.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Not available.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
None.	

#### Biological exposure indices

No exposure indices known.

### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

##### Hygiene measures

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

##### Eye/face protection

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

#### Skin protection

##### Hand protection

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

##### Body protection

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

##### Other skin protection

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

##### Respiratory protection

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

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

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

### Appearance

<b>Physical state</b>	:	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.
<b>Color</b>	:	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.
<b>Odor</b>	:	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.
<b>Odor threshold</b>	:	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 –	Not available.

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

	Cal #4 (5 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #5 (25 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #7 (100 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #8 (200 ug/mL)	
<b>pH</b>	:	Enterprise Caffeine Standard – Not available.
		Cal #1 (0.5 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #2 (1 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #3 (2 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #4 (5 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #5 (25 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #6 (50 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #7 (100 ug/mL) Enterprise Caffeine Standard – Not available.
		Cal #8 (200 ug/mL) Enterprise Caffeine Standard – Not available.
<b>Melting point/freezing point</b>	:	Enterprise Caffeine Standard – 0°C (32°F)
		Cal #1 (0.5 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #2 (1 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #3 (2 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #4 (5 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #5 (25 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #6 (50 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #7 (100 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
		Cal #8 (200 ug/mL) Enterprise Caffeine Standard – 0°C (32°F)
<b>Boiling point, initial boiling point, and boiling range</b>	:	Enterprise Caffeine Standard – 100°C (212°F)
		Cal #1 (0.5 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #2 (1 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #3 (2 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #4 (5 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #5 (25 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #6 (50 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #7 (100 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)
		Cal #8 (200 ug/mL) Enterprise Caffeine Standard – 100°C (212°F)

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

<b>Flash point</b>	:	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.
<b>Evaporation rate</b>	:	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.
<b>Flammability</b>	:	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.
<b>Lower and upper explosion limit/flammability limit</b>	:	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 –	Not available.

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

	Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #7 (100 ug/mL)	
	Enterprise Caffeine Standard –	Not available.
	Cal #8 (200 ug/mL)	
<b>Vapor pressure</b>	:	Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #1 (0.5 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #2 (1 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #3 (2 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #4 (5 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.452 mm Hg)
		Cal #5 (25 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #6 (50 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #7 (100 ug/mL)
		Enterprise Caffeine Standard – 2.3 kPa (17.542 mm Hg)
		Cal #8 (200 ug/mL)
<b>Relative vapor density</b>	:	Enterprise Caffeine Standard – Not available.
		Cal #1 (0.5 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #2 (1 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #3 (2 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #4 (5 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #5 (25 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #6 (50 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #7 (100 ug/mL)
		Enterprise Caffeine Standard – Not available.
		Cal #8 (200 ug/mL)
<b>Relative density</b>	:	Enterprise Caffeine Standard – 1
		Cal #1 (0.5 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #2 (1 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #3 (2 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #4 (5 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #5 (25 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #6 (50 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #7 (100 ug/mL)
		Enterprise Caffeine Standard – 1
		Cal #8 (200 ug/mL)



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

Solubility(ies)	Media	Result
	<b>Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #2 (1 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #3 (2 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #4 (5 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #5 (25 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #6 (50 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #7 (100 ug/mL)</b> water	Soluble
	<b>Enterprise Caffeine Standard – Cal #8 (200 ug/mL)</b> water	Soluble

Partition coefficient: n-octanol/water	Media	Result
	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.

Auto-ignition temperature	Media	Result
	Not available.	
Decomposition temperature	Media	Result
	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.

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

<b>Viscosity</b>	:	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.

### Particle characteristics

<b>Median particle size</b>	:	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.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	:	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
		Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>10.2 Chemical stability</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	The product is stable.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No specific data.
<b>10.5 Incompatible materials</b>	: 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 –	May react or be incompatible with oxidizing

## Section 10. Stability and reactivity

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)		materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	: 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.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Not available.

## Section 11. Toxicological information

### 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.

### 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.

#### **Inhalation**

: 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.

## Section 11. Toxicological information

<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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.
<b><u>Symptoms related to the physical, chemical and toxicological characteristics</u></b>		
<b>Eye contact</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No specific data.
<b>Inhalation</b>	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No specific data.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No specific data.
	Enterprise Caffeine Standard –	No specific data.

## Section 11. Toxicological information

	Cal #5 (25 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #7 (100 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #8 (200 ug/mL)	
<b>Skin contact</b>	:	Enterprise Caffeine Standard –
		No specific data.
	Cal #1 (0.5 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #2 (1 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #3 (2 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #4 (5 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #5 (25 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #7 (100 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #8 (200 ug/mL)	
<b>Ingestion</b>	:	Enterprise Caffeine Standard –
		No specific data.
	Cal #1 (0.5 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #2 (1 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #3 (2 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #4 (5 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #5 (25 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #7 (100 ug/mL)	
	Enterprise Caffeine Standard –	No specific data.
	Cal #8 (200 ug/mL)	

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

## Section 11. Toxicological information

<b>General</b>	:	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.
<b>Carcinogenicity</b>	:	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.
<b>Mutagenicity</b>	:	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.
<b>Reproductive toxicity</b>	:	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 11. Toxicological information

Cal #6 (50 ug/mL) Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No known significant effects or critical hazards.
	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

## Section 12. Ecological information

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

**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 IMO instruments** : Not available.

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **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

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

**Classification** :

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.

##### 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.

## Section 15. Regulatory information

**Pennsylvania** : None of the components are listed.

### California Prop. 65

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

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: All components are listed or exempted.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: All components are listed or exempted.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

**Date of issue/Date of revision** : 05/22/2024

**Date of previous issue** : 05/31/2022

**Version** : 7

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

## Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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