

SAFETY DATA SHEET

Enterprise Edition Caffeine Standards Kit

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

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

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/ 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
Uses advised against	: None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: 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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: 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	No signal word.

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	Standard – Cal #5 (25 ug/mL)	
	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.
Hazard statements	: 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.
Precautionary statements		
Prevention	: 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.

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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.
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.
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.

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	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.
Supplemental label elements	: 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.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 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.

Special packaging requirements

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Containers to be fitted with child-resistant fastenings	: 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.

Tactile warning of danger	: 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.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine	This mixture does not contain any substances that are

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	Standard – Cal #5 (25 ug/mL)	assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: 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

3.1 Substances	: 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 as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	<ul style="list-style-type: none"> : 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) 	<ul style="list-style-type: none"> 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. 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. 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. 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. 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. 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. 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. 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	<ul style="list-style-type: none"> : 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) 	<ul style="list-style-type: none"> Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul style="list-style-type: none"> : 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) 	<ul style="list-style-type: none"> Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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	ug/mL)	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 – Cal #8 (200 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 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.
Protection of first-aiders	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Enterprise Caffeine	No action shall be taken involving any personal risk or without

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Standard – Cal #5 (25 ug/mL)	suitable training.
Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	:	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.
Inhalation	:	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.

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Skin contact	:	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.

Ingestion	:	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 any immediate medical attention and special treatment needed

Notes to physician	:	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 #8 (200 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.

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	Standard – Cal #5 (25 ug/mL)	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.
Specific treatments	: 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 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.

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Unsuitable extinguishing media	: 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.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products	: 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	No specific data.

SECTION 5: Firefighting measures

Standard – Cal #5 (25 ug/mL)	
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.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Enterprise Caffeine Standard – Cal #1 (0.5 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.
Enterprise Caffeine Standard – Cal #2 (1 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.
Enterprise Caffeine Standard – Cal #3 (2 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.
Enterprise Caffeine Standard – Cal #4 (5 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.
Enterprise Caffeine Standard – Cal #5 (25 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.
Enterprise Caffeine Standard – Cal #6 (50 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.
Enterprise Caffeine Standard – Cal #7 (100 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.
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.

Special protective equipment for fire-fighters

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

For non-emergency personnel	: 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
	Enterprise Caffeine Standard – Cal #4 (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 spilt 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 spilt 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	If specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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".

SECTION 6: Accidental release measures

ug/mL) Enterprise Caffeine Standard – Cal #7 (100 ug/mL) Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	unsuitable materials. See also the information in "For non-emergency personnel". If specialised 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". If specialised 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".
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6.2 Environmental precautions

: 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)	Avoid dispersal of spilt 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). Avoid dispersal of spilt 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). Avoid dispersal of spilt 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). Avoid dispersal of spilt 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). Avoid dispersal of spilt 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). Avoid dispersal of spilt 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). Avoid dispersal of spilt 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).
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: 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)	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. 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. 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. 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
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SECTION 6: Accidental release measures

Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	place in an appropriate waste disposal container. 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 #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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: 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).
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

SECTION 7: Handling and storage

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

and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: 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 unlabelled 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 unlabelled 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/

container protected from direct sunlight in a dry, cool and well-

SECTION 7: Handling and storage

mL)	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 unlabelled 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 unlabelled 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 unlabelled 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 until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

SECTION 7: Handling and storage

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.
		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

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

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.

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.

SECTION 9: Physical and chemical properties

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

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	Liquid.

SECTION 9: Physical and chemical properties

	Standard – Cal #6 (50 ug/mL)	
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Liquid.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Liquid.
Colour	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	Colourless.
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	Colourless.
Odour	: 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.
Odour threshold	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	Not available.
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	Not available.
	Enterprise Caffeine	Not available.

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SECTION 9: Physical and chemical properties

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

Melting point/freezing point	:	Enterprise Caffeine	0°C
		Standard – Cal #1 (0.5 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #2 (1 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #3 (2 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #4 (5 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #5 (25 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #6 (50 ug/mL)	
		Enterprise Caffeine	0°C
		Standard – Cal #7 (100 ug/mL)	
		Enterprise Caffeine	0°C

Initial boiling point and boiling range	:	Enterprise Caffeine	100°C
		Standard – Cal #1 (0.5 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #2 (1 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #3 (2 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #4 (5 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #5 (25 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #6 (50 ug/mL)	
		Enterprise Caffeine	100°C
		Standard – Cal #7 (100 ug/mL)	
		Enterprise Caffeine	100°C

SECTION 9: Physical and chemical properties

	ug/mL)	
Flammability	: 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.
Upper/lower flammability or explosive limits	: 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.
Flash point	: 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	Not available.

SECTION 9: Physical and chemical properties

	ug/mL)	
	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.
Auto-ignition temperature	: Not available.	
Decomposition 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.
pH	: 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.

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SECTION 9: Physical and chemical properties

Viscosity : 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.

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

Partition coefficient: n-octanol/water : 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 Not applicable.

SECTION 9: Physical and chemical properties

	Standard – Cal #5 (25 ug/mL)	
	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.
Vapour pressure	: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #2 (1 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #3 (2 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #4 (5 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #5 (25 ug/mL)	2.3 kPa (17.452 mm Hg)
	Enterprise Caffeine Standard – Cal #6 (50 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #7 (100 ug/mL)	2.3 kPa (17.542 mm Hg)
	Enterprise Caffeine Standard – Cal #8 (200 ug/mL)	2.3 kPa (17.542 mm Hg)
Evaporation rate	: 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

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
	Vapour density	:	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
		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.
Explosive properties		:	Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)
		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	Not available.

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SECTION 9: Physical and chemical properties

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

Particle characteristics

Median particle size	: Enterprise Caffeine	Not applicable.
	Standard – Cal #1 (0.5 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #2 (1 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #3 (2 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #4 (5 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #5 (25 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #6 (50 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #7 (100 ug/mL)	
	Enterprise Caffeine	Not applicable.
	Standard – Cal #8 (200 ug/mL)	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: 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 test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: 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)	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: 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)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

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.

10.4 Conditions to avoid	:	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.

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

SECTION 10: Stability and reactivity

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on 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		
Inhalation	: <input checked="" type="checkbox"/> 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.
 Ingestion	: <input checked="" type="checkbox"/> 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	No known significant effects or critical hazards.

SECTION 11: Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Inhalation	:	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.
Ingestion	:	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.
Skin contact	:	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.

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SECTION 11: Toxicological information

	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.
Eye contact	: 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.

Delayed and immediate effects as well as 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

- Conclusion/Summary** : Not available.
- General** :
 - 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.

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SECTION 11: Toxicological information

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

SECTION 11: Toxicological information

Reproductive toxicity	: 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 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- Methods of disposal** : The generation of waste should be avoided or minimised 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.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

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SECTION 13: Disposal considerations

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 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
UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

SECTION 15: Regulatory information

No listed substance

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

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

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

United States : All components are active or exempted.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic

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SECTION 16: Other information

PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

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Notice to reader

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