

SAFETY DATA SHEET



LC - MS Caffeine Standards Kit, Part Number 8500-6917

Section 1. Identification

1.1 Product identifier

Product name : LC - MS Caffeine Standards Kit, Part Number 8500-6917
Part no. (chemical kit) : 8500-6917
Part no. : Caffeine Standard #1 (0.5 µg/mL) 8500-6917-1
 Caffeine Standard #2 (1 µg/mL) 8500-6917-2
 Caffeine Standard #3 (5 µg/mL) 8500-6917-3
 Caffeine Standard #4 (25 µg/mL) 8500-6917-4
 Caffeine Standard #5 (50 µg/mL) 8500-6917-5

Validation date : 1/4/2024

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 Caffeine Standard #1 (0.5 µg/mL) 5 ml
 Caffeine Standard #2 (1 µg/mL) 5 ml
 Caffeine Standard #3 (5 µg/mL) 5 ml
 Caffeine Standard #4 (25 µg/mL) 5 ml
 Caffeine Standard #5 (50 µg/mL) 5 ml

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Caffeine Standard #1 (0.5 µg/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.
 Caffeine Standard #2 (1 µg/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.
 Caffeine Standard #3 (5 µg/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.
 Caffeine Standard #4 (25 µg/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.

Section 2. Hazards identification

This SDS should be retained and available for employees and other users of this product.

Caffeine Standard #5 (50 µg/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	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	No signal word. No signal word. No signal word. No signal word. No signal word.
Hazard statements	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	None known. None known. None known. None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	None known. None known. None known. None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	:	Caffeine Standard #1 (0.5 µg/mL)	Mixture
		Caffeine Standard #2 (1 µg/mL)	Mixture
		Caffeine Standard #3 (5 µg/mL)	Mixture
		Caffeine Standard #4 (25 µg/mL)	Mixture
		Caffeine Standard #5 (50 µg/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

Eye contact	:	Caffeine Standard #1 (0.5 µg/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.
		Caffeine Standard #2 (1 µg/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.
		Caffeine Standard #3 (5 µg/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.
		Caffeine Standard #4 (25 µg/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.
		Caffeine Standard #5 (50 µg/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	:	Caffeine Standard #1 (0.5 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Caffeine Standard #2 (1 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Caffeine Standard #3 (5 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Caffeine Standard #4 (25 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Caffeine Standard #5 (50 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Caffeine Standard #1 (0.5 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Caffeine Standard #2 (1 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Caffeine Standard #3 (5 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Caffeine Standard #4 (25 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

	Caffeine Standard #5 (50 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Caffeine Standard #1 (0.5 µg/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.
	Caffeine Standard #2 (1 µg/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.
	Caffeine Standard #3 (5 µg/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.
	Caffeine Standard #4 (25 µg/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.
	Caffeine Standard #5 (50 µg/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

Eye contact	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Inhalation	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Skin contact	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Ingestion	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
Inhalation	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
Skin contact	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
Ingestion	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.

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

Notes to physician	: Caffeine Standard #1 (0.5 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Caffeine Standard #2 (1 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Caffeine Standard #3 (5 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Caffeine Standard #4 (25 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Caffeine Standard #5 (50 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Caffeine Standard #1 (0.5 µg/mL)	No specific treatment.
	Caffeine Standard #2 (1 µg/mL)	No specific treatment.
	Caffeine Standard #3 (5 µg/mL)	No specific treatment.
	Caffeine Standard #4 (25 µg/mL)	No specific treatment.
	Caffeine Standard #5 (50 µg/mL)	No specific treatment.
Protection of first-aiders	: Caffeine Standard #1 (0.5 µg/mL)	No action shall be taken involving any personal risk or without suitable training.
	Caffeine Standard #2 (1 µg/mL)	No action shall be taken involving any personal risk or without suitable training.
	Caffeine Standard #3 (5 µg/mL)	No action shall be taken involving any personal risk or without suitable training.
	Caffeine Standard #4 (25 µg/mL)	No action shall be taken involving any personal risk or without suitable training.
	Caffeine Standard #5 (50 µg/mL)	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

Suitable extinguishing media	: Caffeine Standard #1 (0.5 µg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Caffeine Standard #2 (1 µg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Caffeine Standard #3 (5 µg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Caffeine Standard #4 (25 µg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Caffeine Standard #5 (50 µg/mL)	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Caffeine Standard #1 (0.5 µg/mL)	None known.
	Caffeine Standard #2 (1 µg/mL)	None known.
	Caffeine Standard #3 (5 µg/mL)	None known.
	Caffeine Standard #4 (25 µg/mL)	None known.
	Caffeine Standard #5 (50 µg/mL)	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Caffeine Standard #1 (0.5 µg/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Caffeine Standard #2 (1 µg/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Caffeine Standard #3 (5 µg/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Caffeine Standard #4 (25 µg/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Caffeine Standard #5 (50 µg/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Caffeine Standard #1 (0.5 µg/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.
	Caffeine Standard #2 (1 µg/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.
	Caffeine Standard #3 (5 µg/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.
	Caffeine Standard #4 (25 µg/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.
	Caffeine Standard #5 (50 µg/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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: Caffeine Standard #1 (0.5 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Caffeine Standard #2 (1 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Caffeine Standard #3 (5 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Caffeine Standard #4 (25 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Caffeine Standard #5 (50 µg/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	: Caffeine Standard #1 (0.5 µg/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.
	Caffeine Standard #2 (1 µg/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.
	Caffeine Standard #3 (5 µg/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.
	Caffeine Standard #4 (25 µg/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.
	Caffeine Standard #5 (50 µg/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.

Section 6. Accidental release measures

For emergency responders	: Caffeine Standard #1 (0.5 µg/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".
	Caffeine Standard #2 (1 µg/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".
	Caffeine Standard #3 (5 µg/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".
	Caffeine Standard #4 (25 µg/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".
	Caffeine Standard #5 (50 µg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Caffeine Standard #1 (0.5 µg/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).
	Caffeine Standard #2 (1 µg/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).
	Caffeine Standard #3 (5 µg/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).
	Caffeine Standard #4 (25 µg/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).
	Caffeine Standard #5 (50 µg/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	: Caffeine Standard #1 (0.5 µg/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.
	Caffeine Standard #2 (1 µg/mL)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Caffeine Standard #3 (5 µg/mL)	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.
Caffeine Standard #4 (25 µg/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.
Caffeine Standard #5 (50 µg/mL)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	: Caffeine Standard #1 (0.5 µg/mL)	Put on appropriate personal protective equipment (see Section 8).
	Caffeine Standard #2 (1 µg/mL)	Put on appropriate personal protective equipment (see Section 8).
	Caffeine Standard #3 (5 µg/mL)	Put on appropriate personal protective equipment (see Section 8).
	Caffeine Standard #4 (25 µg/mL)	Put on appropriate personal protective equipment (see Section 8).
	Caffeine Standard #5 (50 µg/mL)	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Caffeine Standard #1 (0.5 µg/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.
	Caffeine Standard #2 (1 µg/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.
	Caffeine Standard #3 (5 µg/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.
	Caffeine Standard #4 (25 µg/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

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Caffeine Standard #5 (50 µg/mL)	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.
: Caffeine Standard #1 (0.5 µg/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.
Caffeine Standard #2 (1 µg/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.
Caffeine Standard #3 (5 µg/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.
Caffeine Standard #4 (25 µg/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.
Caffeine Standard #5 (50 µg/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

Section 7. Handling and storage

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	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Caffeine Standard #1 (0.5 µg/mL) Caffeine Standard #2 (1 µg/mL) Caffeine Standard #3 (5 µg/mL) Caffeine Standard #4 (25 µg/mL) Caffeine Standard #5 (50 µg/mL)	Not available. Not available. Not available. Not available. 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.

Section 8. Exposure controls/personal protection

- 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

Physical state	: Caffeine Standard #1 (0.5 µg/mL)	Liquid.
	Caffeine Standard #2 (1 µg/mL)	Liquid.
	Caffeine Standard #3 (5 µg/mL)	Liquid.
	Caffeine Standard #4 (25 µg/mL)	Liquid.
	Caffeine Standard #5 (50 µg/mL)	Liquid.
Color	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
Odor	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
Odor threshold	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
pH	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
Melting point/freezing point	: Caffeine Standard #1 (0.5 µg/mL)	0°C (32°F)
	Caffeine Standard #2 (1 µg/mL)	0°C (32°F)
	Caffeine Standard #3 (5 µg/mL)	0°C (32°F)
	Caffeine Standard #4 (25 µg/mL)	0°C (32°F)
	Caffeine Standard #5 (50 µg/mL)	0°C (32°F)
Boiling point, initial boiling point, and boiling range	: Caffeine Standard #1 (0.5 µg/mL)	100°C (212°F)
	Caffeine Standard #2 (1 µg/mL)	100°C (212°F)
	Caffeine Standard #3 (5 µg/mL)	100°C (212°F)
	Caffeine Standard #4 (25 µg/mL)	100°C (212°F)
	Caffeine Standard #5 (50 µg/mL)	100°C (212°F)
Flash point	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.

Section 9. Physical and chemical properties and safety characteristics

- Evaporation rate** : Caffeine Standard #1 (0.5 µg/mL) Not available.
 Caffeine Standard #2 (1 µg/mL) Not available.
 Caffeine Standard #3 (5 µg/mL) Not available.
 Caffeine Standard #4 (25 µg/mL) Not available.
 Caffeine Standard #5 (50 µg/mL) Not available.
- Flammability** : Caffeine Standard #1 (0.5 µg/mL) Not applicable.
 Caffeine Standard #2 (1 µg/mL) Not applicable.
 Caffeine Standard #3 (5 µg/mL) Not applicable.
 Caffeine Standard #4 (25 µg/mL) Not applicable.
 Caffeine Standard #5 (50 µg/mL) Not applicable.
- Lower and upper explosion limit/flammability limit** : Caffeine Standard #1 (0.5 µg/mL) Not available.
 Caffeine Standard #2 (1 µg/mL) Not available.
 Caffeine Standard #3 (5 µg/mL) Not available.
 Caffeine Standard #4 (25 µg/mL) Not available.
 Caffeine Standard #5 (50 µg/mL) Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Caffeine Standard #1 (0.5 µg/mL)						
water	17.5	2.3	-	92.258	12.3	-
Caffeine Standard #2 (1 µg/mL)						
water	17.5	2.3	-	92.258	12.3	-
Caffeine Standard #3 (5 µg/mL)						
water	17.5	2.3	-	92.258	12.3	-
Caffeine Standard #4 (25 µg/mL)						
water	17.5	2.3	-	92.258	12.3	-
Caffeine Standard #5 (50 µg/mL)						
water	17.5	2.3	-	92.258	12.3	-

- Relative vapor density** : Caffeine Standard #1 (0.5 µg/mL) Not available.
 Caffeine Standard #2 (1 µg/mL) Not available.
 Caffeine Standard #3 (5 µg/mL) Not available.
 Caffeine Standard #4 (25 µg/mL) Not available.
 Caffeine Standard #5 (50 µg/mL) Not available.

- Relative density** : Caffeine Standard #1 (0.5 µg/mL) Not available.
 Caffeine Standard #2 (1 µg/mL) Not available.
 Caffeine Standard #3 (5 µg/mL) Not available.
 Caffeine Standard #4 (25 µg/mL) Not available.
 Caffeine Standard #5 (50 µg/mL) Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	Media	Result
	<input checked="" type="checkbox"/> Caffeine Standard #1 (0.5 µg/mL) water	Soluble
	<input checked="" type="checkbox"/> Caffeine Standard #2 (1 µg/mL) water	Soluble
	<input checked="" type="checkbox"/> Caffeine Standard #3 (5 µg/mL) water	Soluble
	<input checked="" type="checkbox"/> Caffeine Standard #4 (25 µg/mL) water	Soluble
	<input checked="" type="checkbox"/> Caffeine Standard #5 (50 µg/mL) water	Soluble
Partition coefficient: n-octanol/water	<input checked="" type="checkbox"/> Caffeine Standard #1 (0.5 µg/mL)	Not applicable.
	Caffeine Standard #2 (1 µg/mL)	Not applicable.
	Caffeine Standard #3 (5 µg/mL)	Not applicable.
	Caffeine Standard #4 (25 µg/mL)	Not applicable.
	Caffeine Standard #5 (50 µg/mL)	Not applicable.
Auto-ignition temperature	<input checked="" type="checkbox"/> Not available.	
Decomposition temperature	Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
Viscosity	Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.
<u>Particle characteristics</u>		
Median particle size	<input checked="" type="checkbox"/> Caffeine Standard #1 (0.5 µg/mL)	Not applicable.
	Caffeine Standard #2 (1 µg/mL)	Not applicable.
	Caffeine Standard #3 (5 µg/mL)	Not applicable.
	Caffeine Standard #4 (25 µg/mL)	Not applicable.
	Caffeine Standard #5 (50 µg/mL)	Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	Caffeine Standard #1 (0.5 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Caffeine Standard #2 (1 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Caffeine Standard #3 (5 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Caffeine Standard #4 (25 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Caffeine Standard #5 (50 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Caffeine Standard #1 (0.5 µg/mL)	The product is stable.
	Caffeine Standard #2 (1 µg/mL)	The product is stable.
	Caffeine Standard #3 (5 µg/mL)	The product is stable.
	Caffeine Standard #4 (25 µg/mL)	The product is stable.
	Caffeine Standard #5 (50 µg/mL)	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Caffeine Standard #1 (0.5 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standard #2 (1 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standard #3 (5 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standard #4 (25 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standard #5 (50 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
10.5 Incompatible materials	: Caffeine Standard #1 (0.5 µg/mL)	May react or be incompatible with oxidizing materials.
	Caffeine Standard #2 (1 µg/mL)	May react or be incompatible with oxidizing materials.
	Caffeine Standard #3 (5 µg/mL)	May react or be incompatible with oxidizing materials.
	Caffeine Standard #4 (25 µg/mL)	May react or be incompatible with oxidizing materials.
	Caffeine Standard #5 (50 µg/mL)	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Caffeine Standard #1 (0.5 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standard #2 (1 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standard #3 (5 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standard #4 (25 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standard #5 (50 µg/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.

Section 11. Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Caffeine Standard #1 (0.5 µg/mL)	Not available.
	Caffeine Standard #2 (1 µg/mL)	Not available.
	Caffeine Standard #3 (5 µg/mL)	Not available.
	Caffeine Standard #4 (25 µg/mL)	Not available.
	Caffeine Standard #5 (50 µg/mL)	Not available.

Potential acute health effects

Eye contact	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Inhalation	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Skin contact	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Ingestion	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
Inhalation	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.

Section 11. Toxicological information

Skin contact	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.
Ingestion	: Caffeine Standard #1 (0.5 µg/mL)	No specific data.
	Caffeine Standard #2 (1 µg/mL)	No specific data.
	Caffeine Standard #3 (5 µg/mL)	No specific data.
	Caffeine Standard #4 (25 µg/mL)	No specific data.
	Caffeine Standard #5 (50 µg/mL)	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Carcinogenicity	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Mutagenicity	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	No known significant effects or critical hazards.
Reproductive toxicity	: Caffeine Standard #1 (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #2 (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #3 (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #4 (25 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standard #5 (50 µg/mL)	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	: Caffeine Standard #1 (0.5 µg/mL)	Not applicable.
	Caffeine Standard #2 (1 µg/mL)	Not applicable.
	Caffeine Standard #3 (5 µg/mL)	Not applicable.
	Caffeine Standard #4 (25 µg/mL)	Not applicable.
	Caffeine Standard #5 (50 µg/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.

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

Section 15. Regulatory information

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	:  All components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: 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 : 01/04/2024

Date of previous issue : 12/24/2020

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 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

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