

# SAFETY DATA SHEET



Caffeine Standards for LC-MS - Trap OQ-PV, Part Number 5065-9908

## Section 1. Identification

<b>Product identifier</b>	: Caffeine Standards for LC-MS - Trap OQ-PV, Part Number 5065-9908
<b>Part No. (Chemical Kit)</b>	: 5065-9908
<b>Part No.</b>	: <input checked="" type="checkbox"/> Caffeine Standards for LC/MS-Trap OQ/ PV (0.1 µg/mL) 5065-9908-1
	: Caffeine Standards for LC/MS-Trap OQ/ PV (0.5 µg/mL) 5065-9908-2
	: Caffeine Standards for LC/MS-Trap OQ/ PV (1 µg/mL) 5065-9908-3
	: Caffeine Standards for LC/MS-Trap OQ/ PV (5 µg/mL) 5065-9908-4
	: Caffeine Standards for LC/MS-Trap OQ/ PV (10 µg/mL) 5065-9908-5

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

Analytical chemistry.

<input checked="" type="checkbox"/> Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	1 x 5 ml
Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	1 x 5 ml
Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	1 x 5 ml
Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	1 x 5 ml
Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	1 x 5 ml

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: (61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

<b>Signal word</b>	: <input checked="" type="checkbox"/> Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL) No signal word.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL) No signal word.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL) No signal word.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL) No signal word.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL) No signal word.
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL) No known significant effects or critical hazards.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL) No known significant effects or critical hazards.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL) No known significant effects or critical hazards.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL) No known significant effects or critical hazards.
	: Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL) No known significant effects or critical hazards.

## Section 2. Hazard(s) identification

MS-Trap OQ/PV (5 µg/mL)  
Caffeine Standards for LC/  
MS-Trap OQ/PV (10 µg/mL) No known significant effects or critical hazards.

### Precautionary statements

<b>Prevention</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
<b>Response</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
<b>Storage</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
<b>Disposal</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
<b>Supplemental label elements</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.

## Section 2. Hazard(s) identification

<b>Other hazards which do not result in classification</b>	: Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	None known.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	None known.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	None known.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	None known.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Mixture
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Mixture
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Mixture
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Mixture
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Mixture

### CAS number/other identifiers

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

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Caffeine Standards for LC/MS-Trap OQ/PV (0.1 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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (10 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.
<b>Inhalation</b>	: Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

## Section 4. First aid measures

	Caffeine Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
	<b>Inhalation</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)		No known significant effects or critical hazards.
<b>Skin contact</b>		: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
	<b>Ingestion</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)		No known significant effects or critical hazards.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)		No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No specific data.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No specific data.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No specific data.
	<b>Inhalation</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)		No specific data.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)		No specific data.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)		No specific data.
: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)		No specific data.

## Section 4. First aid measures

**Skin contact** : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) No specific data.

**Ingestion** : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) No specific data.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) No specific data.

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

**Notes to physician** : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) No specific treatment.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) No specific treatment.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) No specific treatment.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) No specific treatment.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) No specific treatment.

**Protection of first-aiders** : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) No action shall be taken involving any personal risk or without suitable training.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) No action shall be taken involving any personal risk or without suitable training.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) No action shall be taken involving any personal risk or without suitable training.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) No action shall be taken involving any personal risk or without suitable training.  
 ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)



## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

- : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) Use an extinguishing agent suitable for the surrounding fire.
- Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) Use an extinguishing agent suitable for the surrounding fire.
- Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) Use an extinguishing agent suitable for the surrounding fire.
- Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) Use an extinguishing agent suitable for the surrounding fire.
- Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media

- : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) None known.
- Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) None known.
- Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) None known.
- Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) None known.
- Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) None known.

#### Specific hazards arising from the chemical

- : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) In a fire or if heated, a pressure increase will occur and the container may burst.
- Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) In a fire or if heated, a pressure increase will occur and the container may burst.
- Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) In a fire or if heated, a pressure increase will occur and the container may burst.
- Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) In a fire or if heated, a pressure increase will occur and the container may burst.
- Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) In a fire or if heated, a pressure increase will occur and the container may burst.

#### Hazardous thermal decomposition products

- : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL) No specific data.
- Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL) No specific data.
- Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL) No specific data.
- Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL) No specific data.
- Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL) No specific data.

#### Special protective actions for fire-fighters

- : ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (10 µg/mL) Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

## Section 5. Firefighting measures

### Special protective equipment for fire-fighters

: ☑	Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (10 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

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: ☑	Caffeine Standards for LC/MS-Trap OQ/PV (0.1 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 spilt material. Put on appropriate personal protective equipment.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 spilt material. Put on appropriate personal protective equipment.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 spilt material. Put on appropriate personal protective equipment.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 spilt material. Put on appropriate personal protective equipment.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 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 spilt material. Put on appropriate personal protective equipment.



## Section 6. Accidental release measures

<b>For emergency responders</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/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".
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/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".
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/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".
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/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".
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/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".

<b>Environmental precautions</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/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).
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/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).
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/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).
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/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).
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/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).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 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.
	Caffeine Standards for LC/MS-Trap OQ/PV (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 Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

## Section 6. Accidental release measures

Caffeine Standards for LC/  
MS-Trap OQ/PV (5 µg/mL)

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.

Caffeine Standards for LC/  
MS-Trap OQ/PV (10 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

### Precautions for safe handling

#### Protective measures

- : ☑ Caffeine Standards for LC/  
MS-Trap OQ/PV (0.1 µg/mL) Put on appropriate personal protective equipment (see Section 8).
- Caffeine Standards for LC/  
MS-Trap OQ/PV (0.5 µg/mL) Put on appropriate personal protective equipment (see Section 8).
- Caffeine Standards for LC/  
MS-Trap OQ/PV (1 µg/mL) Put on appropriate personal protective equipment (see Section 8).
- Caffeine Standards for LC/  
MS-Trap OQ/PV (5 µg/mL) Put on appropriate personal protective equipment (see Section 8).
- Caffeine Standards for LC/  
MS-Trap OQ/PV (10 µg/mL) Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

- : ☑ Caffeine Standards for LC/  
MS-Trap OQ/PV (0.1 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 Standards for LC/  
MS-Trap OQ/PV (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 Standards for LC/  
MS-Trap OQ/PV (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 Standards for LC/  
MS-Trap OQ/PV (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 Standards for LC/  
MS-Trap OQ/PV (10 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

## Section 7. Handling and storage

before entering eating areas. See also Section 8 for additional information on hygiene measures.

<p><b>Conditions for safe storage, including any incompatibilities</b></p>	<p>☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)</p>	<p>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.</p>
	<p>Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)</p>	<p>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.</p>
	<p>Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)</p>	<p>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.</p>
	<p>Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)</p>	<p>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.</p>
	<p>Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)</p>	<p>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.</p>

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

## Section 8. Exposure controls and personal protection

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** :  Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** :  Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL) Liquid.  
Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL) Liquid.  
Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL) Liquid.  
Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL) Liquid.  
Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL) Liquid.
- Colour** :  Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL) Not available.  
Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL) Not available.  
Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL) Not available.  
Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL) Not available.  
Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL) Not available.

## Section 9. Physical and chemical properties

<b>Odour</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Odour threshold</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>pH</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Melting point</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	0°C (32°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	0°C (32°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	0°C (32°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	0°C (32°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	0°C (32°F)
<b>Boiling point</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	100°C (212°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	100°C (212°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	100°C (212°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	100°C (212°F)
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	100°C (212°F)
<b>Flash point</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.



## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Flammability (solid, gas)</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not applicable.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not applicable.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not applicable.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not applicable.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Vapour pressure</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Vapour density</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Relative density</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	Not available.

## Section 9. Physical and chemical properties

<b>Solubility</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Easily soluble in the following materials: cold water and hot water.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Easily soluble in the following materials: cold water and hot water.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Easily soluble in the following materials: cold water and hot water.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Easily soluble in the following materials: cold water and hot water.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Auto-ignition temperature</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Decomposition temperature</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Not available.
<b>Viscosity</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Not available.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.
	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>Chemical stability</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	The product is stable.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	The product is stable.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	The product is stable.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	The product is stable.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	The product is stable.
<b>Possibility of hazardous reactions</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	No specific data.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	No specific data.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	No specific data.
<b>Incompatible materials</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	May react or be incompatible with oxidising materials.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	May react or be incompatible with oxidising materials.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	May react or be incompatible with oxidising materials.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	May react or be incompatible with oxidising materials.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	<b>:</b> ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	Not available.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	Not available.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	Not available.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	Not available.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	Not available.

### Potential acute health effects

<b>Eye contact</b>	<b>:</b> ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
	<b>Inhalation</b>	<b>:</b> ☑ Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)
Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)		No known significant effects or critical hazards.
Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)		No known significant effects or critical hazards.
Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)		No known significant effects or critical hazards.

## Section 11. Toxicological information

	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
<b>Skin contact</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
<b>Ingestion</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No specific data.
<b>Inhalation</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No specific data.
<b>Skin contact</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No specific data.
<b>Ingestion</b>	: ☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No specific data.
	Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No specific data.



## Section 11. Toxicological information

MS-Trap OQ/PV (5 µg/mL)  
Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/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

Not available.

<b>General</b>	:	☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
<b>Teratogenicity</b>	:	☑ Caffeine Standards for LC/ MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/ MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Developmental effects</b>	:	Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.
	<b>Fertility effects</b>	:	Caffeine Standards for LC/MS-Trap OQ/PV (0.1 µg/mL)
		Caffeine Standards for LC/MS-Trap OQ/PV (0.5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (1 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (5 µg/mL)	No known significant effects or critical hazards.
		Caffeine Standards for LC/MS-Trap OQ/PV (10 µg/mL)	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

### Regulatory information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** : All components are listed or exempted.

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### International lists

#### National inventory

- Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Europe** : All components are listed or exempted.  
**Japan** :  **Japan inventory (ENCS):** All components are listed or exempted.  
**Japan inventory (ISHL):** All components are listed or exempted.  
**Malaysia** : Not determined.  
**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.  
**Turkey** :  Not determined.  
**United States** : All components are listed or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 19/04/2017

**Date of previous issue** : 24/09/2015.

**Version** : 5

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 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)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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