

SAFETY DATA SHEET

Enterprise Edition Caffeine Standards Kit, Part Number 5190-0488

Section 1. Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

| | | |
|--------------------------------|---|------------------------------------------------------------------|
| Product identifier | : | Enterprise Edition Caffeine Standards Kit, Part Number 5190-0488 |
| Part No. (Chemical Kit) | : | 5190-0488 |
| Part No. | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) 5190-0488-1 |
| | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) 5190-0488-2 |
| | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) 5190-0488-3 |
| | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) 5190-0488-4 |
| | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) 5190-0488-5 |
| | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) 5190-0488-6 |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) 5190-0488-7 |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) 5190-0488-8 |

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

Analytical chemistry.

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

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

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Classification of the substance or mixture

Not classified.

GHS label elements

Section 2. Hazard(s) identification

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

Section 2. Hazard(s) identification

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

Section 2. Hazard(s) identification

| | | |
|------------------------------------------------------------|-----------------------------------------------------|-----------------|
| | mL) | |
| Supplemental label elements | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not applicable. |
| Other hazards which do not result in classification | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | None known. |

Section 3. Composition and ingredient information

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

| | | |
|--------------------------|-----------------------------------------------------|---------|
| Substance/mixture | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Mixture |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Mixture |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Mixture |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Mixture |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Mixture |

Section 3. Composition and ingredient information

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|----------------------------------------------------------|---------|
| Enterprise Caffeine Standard – Cal #6 (50 ug/ mL) | Mixture |
| Enterprise Caffeine Standard – Cal #7 (100 ug/ mL) | Mixture |
| Enterprise Caffeine Standard – Cal #8 (200 ug/ mL) | Mixture |

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

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|--------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/ mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/ mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/ mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/ mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/ mL) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/ mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical |

Section 4. First aid measures

Skin contact

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

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

: Enterprise Caffeine
Standard – Cal #1 (0.5 ug/
mL)
Enterprise Caffeine
Standard – Cal #2 (1 ug/mL)

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

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

Wash out mouth with water. 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.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless

Section 4. First aid measures

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

directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

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

Inhalation

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

Section 4. First aid measures

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

Over-exposure signs/symptoms

Section 4. First aid measures

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|---------------------|-------------------|---------------------------------------------------|---------------------------------------------------|-------------------|
| Eye contact | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No specific data. | |
| | Inhalation | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No specific data. | |
| Skin contact | | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific data. |
| | | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific data. | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No specific data. | |

Section 4. First aid measures

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

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

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

| | | |
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| Specific treatments | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific treatment. |

Section 4. First aid measures

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| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific treatment. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No specific treatment. |
| Protection of first-aiders | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No action shall be taken involving any personal risk or without suitable training. |

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

| | | |
|---------------------------------------|-----------------------------------------------------|---------------------------------------------------------------|
| Suitable extinguishing media | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | None known. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | None known. |
| | Enterprise Caffeine | None known. |

Section 5. Firefighting measures

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|----------------------------------------------------------|-------------|
| Standard – Cal #4 (5 ug/mL) Enterprise Caffeine | None known. |
| Standard – Cal #5 (25 ug/ mL) Enterprise Caffeine | None known. |
| Standard – Cal #6 (50 ug/ mL) Enterprise Caffeine | None known. |
| Standard – Cal #7 (100 ug/ mL) Enterprise Caffeine | None known. |
| Standard – Cal #8 (200 ug/ mL) Enterprise Caffeine | None known. |

Specific hazards arising from the chemical

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

Hazardous thermal decomposition products

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

Section 5. Firefighting measures

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

Section 5. Firefighting measures

pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For non-emergency personnel | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| For emergency responders | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on |

Section 6. Accidental release measures

| | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

| | | |
|------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

Section 6. Accidental release measures

Methods and material for containment and cleaning up

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|--------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

Section 7. Handling and storage

Precautions for safe handling

| | | |
|----------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
| Protective measures | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |

Section 7. Handling and storage

Advice on general occupational hygiene

| | |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Put on appropriate personal protective equipment (see Section 8). |
| : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and |

Section 7. Handling and storage

| | | |
|----------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | mL) | 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. |
| <p>Conditions for safe storage, including any incompatibilities</p> | <p>: Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL)</p> | <p>Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p> |
| | <p>Enterprise Caffeine Standard – Cal #2 (1 ug/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>Enterprise Caffeine Standard – Cal #3 (2 ug/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>Enterprise Caffeine Standard – Cal #4 (5 ug/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>Enterprise Caffeine Standard – Cal #5 (25 ug/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>Enterprise Caffeine Standard – Cal #6 (50 ug/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</p> |

Section 7. Handling and storage

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

must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls and personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

Control parameters

Occupational exposure limits

None.

- 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 and 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

Appearance

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

Section 9. Physical and chemical properties

| | | |
|------------------------|-----------------------------------------------------|----------------|
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Odour threshold | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| pH | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Melting point | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 0°C (32°F) |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 0°C (32°F) |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 0°C (32°F) |
| | Enterprise Caffeine | 0°C (32°F) |

Section 9. Physical and chemical properties

| | | |
|-------------------------|-------------------------------|----------------|
| | Standard – Cal #4 (5 ug/mL) | |
| | Enterprise Caffeine | 0°C (32°F) |
| | Standard – Cal #5 (25 ug/mL) | |
| | Enterprise Caffeine | 0°C (32°F) |
| | Standard – Cal #6 (50 ug/mL) | |
| | Enterprise Caffeine | 0°C (32°F) |
| | Standard – Cal #7 (100 ug/mL) | |
| | Enterprise Caffeine | 0°C (32°F) |
| | Standard – Cal #8 (200 ug/mL) | |
| Boiling point | : Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #1 (0.5 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #2 (1 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #3 (2 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #4 (5 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #5 (25 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #6 (50 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #7 (100 ug/mL) | |
| | Enterprise Caffeine | 100°C (212°F) |
| | Standard – Cal #8 (200 ug/mL) | |
| Flash point | : Enterprise Caffeine | Not available. |
| | Standard – Cal #1 (0.5 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #2 (1 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #3 (2 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #4 (5 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #5 (25 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #6 (50 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #7 (100 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #8 (200 ug/mL) | |
| Evaporation rate | : Enterprise Caffeine | Not available. |
| | Standard – Cal #1 (0.5 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #2 (1 ug/mL) | |
| | Enterprise Caffeine | Not available. |
| | Standard – Cal #3 (2 ug/mL) | |

Section 9. Physical and chemical properties

| | | |
|-----------------------------------------------------|-----------------------------------------------------|-----------------|
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Flammability (solid, gas) | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not applicable. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not applicable. |
| Lower and upper explosive (flammable) limits | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |

Section 9. Physical and chemical properties

| | | | | |
|-------------------------|-----------------------|---------------------------------------------------|---------------------------------------------------|----------------|
| Vapour pressure | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 2.3 kPa (17.452 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 2.3 kPa (17.542 mm Hg) [room temperature] | |
| | Vapour density | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. | |
| Relative density | | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | 1 |
| | | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | 1 |
| | | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | 1 |
| | | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | 1 |
| | | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | 1 |
| | | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | 1 |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | 1 | |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | 1 | |

Section 9. Physical and chemical properties

| | | |
|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|
| Solubility | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |
| Auto-ignition temperature | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |

Section 9. Physical and chemical properties

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

Section 10. Stability and reactivity

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

Section 10. Stability and reactivity

| | | |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | mL) Enterprise Caffeine Standard – Cal #8 (200 ug/ mL) | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/ mL) Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Enterprise Caffeine Standard – Cal #5 (25 ug/ mL) Enterprise Caffeine Standard – Cal #6 (50 ug/ mL) Enterprise Caffeine Standard – Cal #7 (100 ug/ mL) Enterprise Caffeine Standard – Cal #8 (200 ug/ mL) | The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. |
| Possibility of hazardous reactions | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/ mL) Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Enterprise Caffeine Standard – Cal #5 (25 ug/ mL) Enterprise Caffeine Standard – Cal #6 (50 ug/ mL) Enterprise Caffeine Standard – Cal #7 (100 ug/ mL) Enterprise Caffeine Standard – Cal #8 (200 ug/ mL) | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/ mL) Enterprise Caffeine Standard – Cal #2 (1 ug/mL) Enterprise Caffeine Standard – Cal #3 (2 ug/mL) Enterprise Caffeine Standard – Cal #4 (5 ug/mL) Enterprise Caffeine Standard – Cal #5 (25 ug/ mL) Enterprise Caffeine | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |

Section 10. Stability and reactivity

Standard – Cal #6 (50 ug/
mL)
Enterprise Caffeine No specific data.
Standard – Cal #7 (100 ug/
mL)
Enterprise Caffeine No specific data.
Standard – Cal #8 (200 ug/
mL)

Incompatible materials :

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

Hazardous decomposition products :

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

Section 11. Toxicological information

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.

| | | |
|-------------------------------------------------|-----------------------------------------------------|----------------|
| Information on likely routes of exposure | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | Not available. |
| | : Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | Not available. |

Potential acute health effects

| | | |
|--------------------|-----------------------------------------------------|---------------------------------------------------|
| Eye contact | : Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No known significant effects or critical hazards. |
| | : Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No known significant effects or critical hazards. |
| | : Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No known significant effects or critical hazards. |
| | : Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No known significant effects or critical hazards. |

Section 11. Toxicological information

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

Section 11. Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

| | | | |
|--------------------|---|---------------------------------------------------|-------------------|
| Eye contact | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #8 (200 ug/mL) | No specific data. |
| Inhalation | : | Enterprise Caffeine Standard – Cal #1 (0.5 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #2 (1 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #3 (2 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #4 (5 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #5 (25 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #6 (50 ug/mL) | No specific data. |
| | | Enterprise Caffeine Standard – Cal #7 (100 ug/mL) | No specific data. |

Section 11. Toxicological information

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

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.

Section 11. Toxicological information

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

Section 11. Toxicological information

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

Section 11. Toxicological information

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

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

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) : Not determined. |
| 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 : 16/11/2016

Date of previous issue : 20/05/2016.

Version : 4.1

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

Section 16. Any other relevant information

[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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