

# SAFETY DATA SHEET

SFC Caffeine in Methanol Standard, Part Number 5190-0552

## Section 1. Identification

### 1.1 Product identifier

<b>Product name</b>	: SFC Caffeine in Methanol Standard, Part Number 5190-0552	
<b>Part no. (chemical kit)</b>	: 5190-0552	
<b>Part no.</b>	: <input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (Solvent Blank)	5190-0552-6
	: SFC Caffeine in Methanol Standard (2.0 µg/mL)	5190-0552-1
	: SFC Caffeine in Methanol Standard (10.0 µg/mL)	5190-0552-2
	: SFC Caffeine in Methanol Standard (50.0 µg/mL)	5190-0552-3
	: SFC Caffeine in Methanol Standard (100.0 µg/mL)	5190-0552-4
	: SFC Caffeine in Methanol Standard (200.0 µg/mL)	5190-0552-5
<b>Validation date</b>	: 7/16/2018	

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

<b>Material uses</b>	: <input checked="" type="checkbox"/> Reagents and Standards for Analytical Chemistry Laboratory Use 7 X 2 ml	
	: <input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (Solvent Blank)	1 X 2 ml
	: SFC Caffeine in Methanol Standard (2.0 µg/mL)	1 X 2 ml
	: SFC Caffeine in Methanol Standard (10.0 µg/mL)	1 X 2 ml
	: SFC Caffeine in Methanol Standard (50.0 µg/mL)	2 X 2 ml
	: SFC Caffeine in Methanol Standard (100.0 µg/mL)	1 X 2 ml
	: SFC Caffeine in Methanol Standard (200.0 µg/mL)	1 X 2 ml

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

<b>Supplier/Manufacturer</b>	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
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### 1.4 Emergency telephone number

<b>In case of emergency</b>	: CHEMTREC®: 1-800-424-9300
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## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

## Section 2. Hazards identification

<b>OSHA/HCS status</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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### Classification of the substance or mixture

#### **SFC Caffeine in Methanol Standard (Solvent Blank)**

H225	FLAMMABLE LIQUIDS - Category 2
H301	ACUTE TOXICITY (oral) - Category 3
H311	ACUTE TOXICITY (dermal) - Category 3
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### **SFC Caffeine in Methanol Standard (2.0 µg/mL)**

H225	FLAMMABLE LIQUIDS - Category 2
H301	ACUTE TOXICITY (oral) - Category 3
H311	ACUTE TOXICITY (dermal) - Category 3
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### **SFC Caffeine in Methanol Standard (10.0 µg/mL)**

H225	FLAMMABLE LIQUIDS - Category 2
H301	ACUTE TOXICITY (oral) - Category 3
H311	ACUTE TOXICITY (dermal) - Category 3
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

## Section 2. Hazards identification

H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### SFC Caffeine in Methanol Standard (50.0 µg/mL)

H225 FLAMMABLE LIQUIDS - Category 2  
 H301 ACUTE TOXICITY (oral) - Category 3  
 H311 ACUTE TOXICITY (dermal) - Category 3  
 H331 ACUTE TOXICITY (inhalation) - Category 3  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### SFC Caffeine in Methanol Standard (100.0 µg/mL)

H225 FLAMMABLE LIQUIDS - Category 2  
 H301 ACUTE TOXICITY (oral) - Category 3  
 H311 ACUTE TOXICITY (dermal) - Category 3  
 H331 ACUTE TOXICITY (inhalation) - Category 3  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### SFC Caffeine in Methanol Standard (200.0 µg/mL)

H225 FLAMMABLE LIQUIDS - Category 2  
 H301 ACUTE TOXICITY (oral) - Category 3  
 H311 ACUTE TOXICITY (dermal) - Category 3  
 H331 ACUTE TOXICITY (inhalation) - Category 3  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### [2.2 GHS label elements](#)

## Section 2. Hazards identification

### Hazard pictograms

: SFC Caffeine in Methanol Standard (Solvent Blank)



SFC Caffeine in Methanol Standard (2.0 µg/mL)



SFC Caffeine in Methanol Standard (10.0 µg/mL)



SFC Caffeine in Methanol Standard (50.0 µg/mL)



SFC Caffeine in Methanol Standard (100.0 µg/mL)



SFC Caffeine in Methanol Standard (200.0 µg/mL)



### Signal word

: SFC Caffeine in Methanol Standard (Solvent Blank)  
 SFC Caffeine in Methanol Standard (2.0 µg/mL)  
 SFC Caffeine in Methanol Standard (10.0 µg/mL)  
 SFC Caffeine in Methanol Standard (50.0 µg/mL)  
 SFC Caffeine in Methanol Standard (100.0 µg/mL)  
 SFC Caffeine in Methanol Standard (200.0 µg/mL)

Danger  
 Danger  
 Danger  
 Danger  
 Danger  
 Danger

### Hazard statements

: SFC Caffeine in Methanol Standard (Solvent Blank)

H225 - Highly flammable liquid and vapor.

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H360 - May damage the unborn child.

H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H225 - Highly flammable liquid and vapor.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

## Section 2. Hazards identification

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H225 - Highly flammable liquid and vapor.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H225 - Highly flammable liquid and vapor.

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H225 - Highly flammable liquid and vapor.

SFC Caffeine in Methanol  
Standard (200.0 µg/mL)

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H225 - Highly flammable liquid and vapor.

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

### Precautionary statements

#### Prevention

: SFC Caffeine in Methanol  
Standard (Solvent Blank)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P210 - Keep away from heat, hot surfaces, sparks,

## Section 2. Hazards identification

SFC Caffeine in Methanol  
Standard (2.0 µg/mL)

open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P233 - Keep container tightly closed.  
P271 - Use only outdoors or in a well-ventilated area.  
P260 - Do not breathe vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P233 - Keep container tightly closed.  
P271 - Use only outdoors or in a well-ventilated area.  
P260 - Do not breathe vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
P201 - Obtain special instructions before use.

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P233 - Keep container tightly closed.  
P271 - Use only outdoors or in a well-ventilated area.  
P260 - Do not breathe vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
P201 - Obtain special instructions before use.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

P202 - Do not handle until all safety precautions

## Section 2. Hazards identification

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

have been read and understood.  
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P260 - Do not breathe vapor.  
 P270 - Do not eat, drink or smoke when using this product.  
 P264 - Wash hands thoroughly after handling.  
 P201 - Obtain special instructions before use.

SFC Caffeine in Methanol  
Standard (200.0 µg/mL)

P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P260 - Do not breathe vapor.  
 P270 - Do not eat, drink or smoke when using this product.  
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P202 - Do not handle until all safety precautions have been read and understood.  
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 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P260 - Do not breathe vapor.  
 P270 - Do not eat, drink or smoke when using this product.

## Section 2. Hazards identification

### Response

: SFC Caffeine in Methanol Standard (Solvent Blank)

P264 - Wash hands thoroughly after handling.  
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.  
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

P307 + P311 - IF exposed: Call a POISON CENTER or physician.  
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

P307 + P311 - IF exposed: Call a POISON CENTER or physician.  
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.



## Section 2. Hazards identification

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.  
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.  
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.  
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.  
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

## Section 2. Hazards identification

	SFC Caffeine in Methanol Standard (200.0 µg/mL)	<p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p> <p>P307 + P311 - IF exposed: Call a POISON CENTER or physician.</p> <p>P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.</p> <p>P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p> <p>P405 - Store locked up.</p>
<b>Storage</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P405 - Store locked up.</p>
<b>Disposal</b>	:	<p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p>

## Section 2. Hazards identification

	SFC Caffeine in Methanol Standard (Solvent Blank)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	None known.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	None known.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	None known.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	None known.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Substance
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Mixture
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Mixture
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Mixture
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Mixture
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Mixture

## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	100	67-56-1
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	≥90	67-56-1
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	≥90	67-56-1
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	≥90	67-56-1
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	≥90	67-56-1
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	≥90	67-56-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional 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

### 4.1 Description of necessary first aid measures

#### Eye contact

: **SFC Caffeine in Methanol Standard (Solvent Blank)**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

SFC Caffeine in Methanol Standard (100.0 µg/mL)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

## Section 4. First aid measures

### Inhalation

SFC Caffeine in Methanol Standard (200.0 µg/mL)

medical attention. If necessary, call a poison center or physician.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

: SFC Caffeine in Methanol Standard (Solvent Blank)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest

## Section 4. First aid measures

occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol Standard (100.0 µg/mL)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol Standard (200.0 µg/mL)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Skin contact

: SFC Caffeine in Methanol Standard (Solvent Blank)

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at

## Section 4. First aid measures

		least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

## Section 4. First aid measures

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

tie, belt or waistband.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SFC Caffeine in Methanol  
Standard (200.0 µg/mL)

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be



## Section 4. First aid measures

kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

<b>Eye contact</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.
<b>Inhalation</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)  SFC Caffeine in Methanol Standard (2.0 µg/mL)  SFC Caffeine in Methanol Standard (10.0 µg/mL)  SFC Caffeine in Methanol Standard (50.0 µg/mL)  SFC Caffeine in Methanol Standard (100.0 µg/mL)  SFC Caffeine in Methanol Standard (200.0 µg/mL)	Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Skin contact</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	Toxic in contact with skin. Causes skin irritation. Toxic in contact with skin. Causes skin irritation. Toxic in contact with skin. Causes skin irritation. Toxic in contact with skin. Causes skin irritation. Toxic in contact with skin. Causes skin irritation. Toxic in contact with skin. Causes skin irritation.

## Section 4. First aid measures

### Ingestion

- : SFC Caffeine in Methanol Standard (Solvent Blank) Toxic if swallowed. Can cause central nervous system (CNS) depression.
- SFC Caffeine in Methanol Standard (2.0 µg/mL) Toxic if swallowed. Can cause central nervous system (CNS) depression.
- SFC Caffeine in Methanol Standard (10.0 µg/mL) Toxic if swallowed. Can cause central nervous system (CNS) depression.
- SFC Caffeine in Methanol Standard (50.0 µg/mL) Toxic if swallowed. Can cause central nervous system (CNS) depression.
- SFC Caffeine in Methanol Standard (100.0 µg/mL) Toxic if swallowed. Can cause central nervous system (CNS) depression.
- SFC Caffeine in Methanol Standard (200.0 µg/mL) Toxic if swallowed. Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

#### Eye contact

- : SFC Caffeine in Methanol Standard (Solvent Blank) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- SFC Caffeine in Methanol Standard (2.0 µg/mL) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- SFC Caffeine in Methanol Standard (10.0 µg/mL) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- SFC Caffeine in Methanol Standard (50.0 µg/mL) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- SFC Caffeine in Methanol Standard (100.0 µg/mL) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- SFC Caffeine in Methanol Standard (200.0 µg/mL) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

#### Inhalation

- : SFC Caffeine in Methanol Standard (Solvent Blank) Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- SFC Caffeine in Methanol Standard (2.0 µg/mL) Adverse symptoms may include the following:

## Section 4. First aid measures

SFC Caffeine in Methanol Standard (10.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (50.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (100.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (200.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:

## Section 4. First aid measures

### Skin contact

: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (50.0 µg/mL)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (100.0 µg/mL)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Adverse symptoms may include the following:  irritation redness reduced fetal weight increase in fetal deaths skeletal malformations

### Ingestion

: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following:  reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following:  reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following:  reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol	Adverse symptoms may include the following:

## Section 4. First aid measures

Standard (50.0 µg/mL)	reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (100.0 µg/mL)	Adverse symptoms may include the following:  reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Adverse symptoms may include the following:  reduced fetal weight increase in fetal deaths skeletal malformations

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

<b>Notes to physician</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No specific treatment.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No specific treatment.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No specific treatment.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No specific treatment.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No specific treatment.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No specific treatment.
<b>Protection of first-aiders</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an

## Section 4. First aid measures

SFC Caffeine in Methanol Standard (10.0 µg/mL)

appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SFC Caffeine in Methanol Standard (100.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SFC Caffeine in Methanol Standard (200.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

: SFC Caffeine in Methanol Standard (Solvent Blank)  
 SFC Caffeine in Methanol Standard (2.0 µg/mL)  
 SFC Caffeine in Methanol Standard (10.0 µg/mL)  
 SFC Caffeine in Methanol Standard (50.0 µg/mL)  
 SFC Caffeine in Methanol Standard (100.0 µg/mL)  
 SFC Caffeine in Methanol Standard (200.0 µg/mL)

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

## Section 5. Fire-fighting measures

<b>Unsuitable extinguishing media</b>	<b>:</b> SFC Caffeine in Methanol Standard (Solvent Blank)	Do not use water jet.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Do not use water jet.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Do not use water jet.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Do not use water jet.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Do not use water jet.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Do not use water jet.

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

<b>Specific hazards arising from the chemical</b>	<b>:</b> SFC Caffeine in Methanol Standard (Solvent Blank)	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and

## Section 5. Fire-fighting measures

	SFC Caffeine in Methanol Standard (200.0 µg/mL)	flash back. Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
<b>Hazardous thermal decomposition products</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
<b>5.3 Advice for firefighters</b>		
<b>Special protective actions for fire-fighters</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire



## Section 5. Fire-fighting measures

	SFC Caffeine in Methanol Standard (50.0 µg/mL)	area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SFC Caffeine in Methanol	No action shall be taken involving any personal

## Section 6. Accidental release measures

Standard (2.0 µg/mL)	<p>risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
SFC Caffeine in Methanol Standard (10.0 µg/mL)	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
SFC Caffeine in Methanol Standard (50.0 µg/mL)	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
SFC Caffeine in Methanol Standard (100.0 µg/mL)	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
SFC Caffeine in Methanol Standard (200.0 µg/mL)	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
<p><b>For emergency responders :</b> SFC Caffeine in Methanol Standard (Solvent Blank)</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
SFC Caffeine in Methanol Standard (2.0 µg/mL)	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
SFC Caffeine in Methanol Standard (10.0 µg/mL)	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8</p>

## Section 6. Accidental release measures

SFC Caffeine in Methanol Standard (50.0 µg/mL)	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SFC Caffeine in Methanol Standard (100.0 µg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SFC Caffeine in Methanol Standard (200.0 µg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	
: SFC Caffeine in Methanol Standard (Solvent Blank)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SFC Caffeine in Methanol Standard (50.0 µg/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SFC Caffeine in Methanol Standard (100.0 µg/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	
: SFC Caffeine in Methanol Standard (Solvent Blank)	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-

## Section 6. Accidental release measures

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

SFC Caffeine in Methanol  
Standard (200.0 µg/mL)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

: SFC Caffeine in Methanol  
Standard (Solvent Blank)

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

SFC Caffeine in Methanol  
Standard (2.0 µg/mL)

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special

## Section 7. Handling and storage

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product

## Section 7. Handling and storage

	SFC Caffeine in Methanol Standard (100.0 µg/mL)	<p>residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	<p>Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
<p><b>Advice on general occupational hygiene</b></p>	<p>: SFC Caffeine in Methanol Standard (Solvent Blank)</p> <p>SFC Caffeine in Methanol Standard (2.0 µg/mL)</p> <p>SFC Caffeine in Methanol</p>	<p>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.</p> <p>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.</p> <p>Eating, drinking and smoking should be prohibited</p>

## Section 7. Handling and storage

Standard (10.0 µg/mL)

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. 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. 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. 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.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

SFC Caffeine in Methanol Standard (100.0 µg/mL)

SFC Caffeine in Methanol Standard (200.0 µg/mL)

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

: SFC Caffeine in Methanol Standard (Solvent Blank)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 7. Handling and storage

SFC Caffeine in Methanol  
Standard (10.0 µg/mL)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SFC Caffeine in Methanol  
Standard (50.0 µg/mL)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SFC Caffeine in Methanol  
Standard (100.0 µg/mL)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SFC Caffeine in Methanol  
Standard (200.0 µg/mL)

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination. See Section 10 for



## Section 7. Handling and storage

incompatible materials before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Industrial applications, Professional applications.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Industrial applications, Professional applications.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Industrial applications, Professional applications.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Industrial applications, Professional applications.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Industrial applications, Professional applications.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Not applicable.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not applicable.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
SFC Caffeine in Methanol Standard (Solvent Blank) Methanol	<b>ACGIH TLV (United States, 3/2017).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 262 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL 1989 (United States, 3/1989).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 10 hours. TWA: 260 mg/m <sup>3</sup> 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

### SFC Caffeine in Methanol Standard (2.0 µg/mL)

Methanol

#### ACGIH TLV (United States, 3/2017).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 262 mg/m<sup>3</sup> 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 328 mg/m<sup>3</sup> 15 minutes.

#### OSHA PEL 1989 (United States, 3/1989).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 260 mg/m<sup>3</sup> 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 325 mg/m<sup>3</sup> 15 minutes.

#### NIOSH REL (United States, 10/2016).

##### Absorbed through skin.

TWA: 200 ppm 10 hours.

TWA: 260 mg/m<sup>3</sup> 10 hours.

STEL: 250 ppm 15 minutes.

STEL: 325 mg/m<sup>3</sup> 15 minutes.

#### OSHA PEL (United States, 6/2016).

TWA: 200 ppm 8 hours.

TWA: 260 mg/m<sup>3</sup> 8 hours.

### SFC Caffeine in Methanol Standard (10.0 µg/mL)

Methanol

#### ACGIH TLV (United States, 3/2017).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 262 mg/m<sup>3</sup> 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 328 mg/m<sup>3</sup> 15 minutes.

#### OSHA PEL 1989 (United States, 3/1989).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 260 mg/m<sup>3</sup> 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 325 mg/m<sup>3</sup> 15 minutes.

#### NIOSH REL (United States, 10/2016).

##### Absorbed through skin.

TWA: 200 ppm 10 hours.

TWA: 260 mg/m<sup>3</sup> 10 hours.

STEL: 250 ppm 15 minutes.

STEL: 325 mg/m<sup>3</sup> 15 minutes.

#### OSHA PEL (United States, 6/2016).

TWA: 200 ppm 8 hours.

TWA: 260 mg/m<sup>3</sup> 8 hours.

### SFC Caffeine in Methanol Standard (50.0 µg/mL)

Methanol

#### ACGIH TLV (United States, 3/2017).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 262 mg/m<sup>3</sup> 8 hours.

STEL: 250 ppm 15 minutes.

STEL: 328 mg/m<sup>3</sup> 15 minutes.

#### OSHA PEL 1989 (United States, 3/1989).

##### Absorbed through skin.

TWA: 200 ppm 8 hours.

TWA: 260 mg/m<sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

**SFC Caffeine in Methanol Standard (100.0 µg/mL)**  
Methanol

STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2016).**  
**Absorbed through skin.**  
TWA: 200 ppm 10 hours.  
TWA: 260 mg/m<sup>3</sup> 10 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 6/2016).**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.

**ACGIH TLV (United States, 3/2017).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 262 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 328 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2016).**  
**Absorbed through skin.**  
TWA: 200 ppm 10 hours.  
TWA: 260 mg/m<sup>3</sup> 10 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 6/2016).**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.

**SFC Caffeine in Methanol Standard (200.0 µg/mL)**  
Methanol

**ACGIH TLV (United States, 3/2017).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 262 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 328 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2016).**  
**Absorbed through skin.**  
TWA: 200 ppm 10 hours.  
TWA: 260 mg/m<sup>3</sup> 10 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 6/2016).**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

### 8.2 Exposure controls

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- 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: chemical splash goggles.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- |                       |   |                  |
|-----------------------|---|------------------|
| <b>Physical state</b> | : SFC Caffeine in Methanol Standard (Solvent Blank) | Liquid. [Clear.] |
|                       | SFC Caffeine in Methanol Standard (2.0 µg/mL)       | Liquid.          |
|                       | SFC Caffeine in Methanol Standard (10.0 µg/mL)      | Liquid.          |
|                       | SFC Caffeine in Methanol Standard (50.0 µg/mL)      | Liquid.          |

## Section 9. Physical and chemical properties

	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Liquid.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Liquid.
<b>Color</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Colorless.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Colorless.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Colorless.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Colorless.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Colorless.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Colorless.
<b>Odor</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Characteristic.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
<b>Odor threshold</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Not available.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
<b>pH</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Not available.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.

## Section 9. Physical and chemical properties

<b>Melting point</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	-98°C (-144.4°F)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	-98°C (-144.4°F)
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	-98°C (-144.4°F)
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	-98°C (-144.4°F)
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	-98°C (-144.4°F)
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	-98°C (-144.4°F)
<b>Boiling point</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	64.8°C (148.6°F)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	64.8°C (148.6°F)
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	64.8°C (148.6°F)
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	64.8°C (148.6°F)
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	64.8°C (148.6°F)
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	64.8°C (148.6°F)
<b>Flash point</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Closed cup: 11.1°C (52°F)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Closed cup: 11.1°C (52°F)
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Closed cup: 11.1°C (52°F)
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Closed cup: 11.1°C (52°F)
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Closed cup: 11.1°C (52°F)
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Closed cup: 11.1°C (52°F)
<b>Evaporation rate</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	2.1 (butyl acetate = 1)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
<b>Flammability (solid, gas)</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Not applicable.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not applicable.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not applicable.

## Section 9. Physical and chemical properties

	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Lower: 6.7%
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Upper: 36% Lower: 6.7%
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Upper: 36% Lower: 6.7%
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Upper: 36% Lower: 6.7%
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Upper: 36% Lower: 6.7%
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Upper: 36% Lower: 6.7%
		SFC Caffeine in Methanol Standard (200.0 µg/mL)
<b>Vapor pressure</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	13.3 kPa (100 mm Hg) [room temperature]
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	13.3 kPa (100 mm Hg) [room temperature]
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	13.3 kPa (100 mm Hg) [room temperature]
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	13.3 kPa (100 mm Hg) [room temperature]
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	13.3 kPa (100 mm Hg) [room temperature]
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	13.3 kPa (100 mm Hg) [room temperature]
		SFC Caffeine in Methanol Standard (200.0 µg/mL)
<b>Vapor density</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	1.1 [Air = 1]
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	1.1 [Air = 1]
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	1.1 [Air = 1]
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	1.1 [Air = 1]
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	1.1 [Air = 1]
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	1.1 [Air = 1]
		SFC Caffeine in Methanol Standard (Solvent Blank)
<b>Relative density</b>	: SFC Caffeine in Methanol Standard (2.0 µg/mL)	0.791
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	0.791
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	0.791
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	0.791
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	0.791

## Section 9. Physical and chemical properties

<b>Solubility</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Easily soluble in the following materials: methanol, n-octanol and acetone. Soluble in the following materials: cold water and hot water.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Soluble in the following materials: cold water and hot water.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Soluble in the following materials: cold water and hot water.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Soluble in the following materials: cold water and hot water.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Soluble in the following materials: cold water and hot water.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	-0.77
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
<b>Auto-ignition temperature</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	385°C (725°F)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	385°C (725°F)
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	385°C (725°F)
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	385°C (725°F)
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	385°C (725°F)
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	385°C (725°F)
<b>Decomposition temperature</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Not available.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
<b>Viscosity</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Dynamic (room temperature): 0.54 to 0.59 mPa·s (0.54 to 0.59 cP)
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not available.



## Section 9. Physical and chemical properties

SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/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.
<b>10.3 Possibility of hazardous reactions</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/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.
<b>10.4 Conditions to avoid</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)  SFC Caffeine in Methanol Standard (2.0 µg/mL)  SFC Caffeine in Methanol Standard (10.0 µg/mL)	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder,

## Section 10. Stability and reactivity

	SFC Caffeine in Methanol Standard (50.0 µg/mL)	drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
<b>10.5 Incompatible materials</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p>
<b>10.6 Hazardous decomposition products</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p>

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
<b>SFC Caffeine in Methanol</b>					

## Section 11. Toxicological information

<b>Standard (2.0 µg/mL)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

## Section 11. Toxicological information

<b>Information on the likely routes of exposure</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<ul style="list-style-type: none"> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> </ul>
<b>Potential acute health effects</b>		
<b>Eye contact</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<ul style="list-style-type: none"> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<ul style="list-style-type: none"> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>: SFC Caffeine in Methanol Standard (Solvent Blank)</li> <li>SFC Caffeine in Methanol Standard (2.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (10.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (50.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (100.0 µg/mL)</li> <li>SFC Caffeine in Methanol Standard (200.0 µg/mL)</li> </ul>	<ul style="list-style-type: none"> <li>Toxic in contact with skin. Causes skin irritation.</li> <li>Toxic in contact with skin. Causes skin irritation.</li> <li>Toxic in contact with skin. Causes skin irritation.</li> <li>Toxic in contact with skin. Causes skin irritation.</li> <li>Toxic in contact with skin. Causes skin irritation.</li> <li>Toxic in contact with skin. Causes skin irritation.</li> </ul>

## Section 11. Toxicological information

<b>Ingestion</b>	: SFC Caffeine in Methanol Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (10.0 µg/mL) SFC Caffeine in Methanol Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	Toxic if swallowed. Can cause central nervous system (CNS) depression. Toxic if swallowed. Can cause central nervous system (CNS) depression. Toxic if swallowed. Can cause central nervous system (CNS) depression. Toxic if swallowed. Can cause central nervous system (CNS) depression. Toxic if swallowed. Can cause central nervous system (CNS) depression. Toxic if swallowed. Can cause central nervous system (CNS) depression.
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### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following:  pain or irritation watering redness
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following:  pain or irritation watering redness
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following:  pain or irritation watering redness
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Adverse symptoms may include the following:  pain or irritation watering redness
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Adverse symptoms may include the following:  pain or irritation watering redness
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following:  respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following:

## Section 11. Toxicological information

SFC Caffeine in Methanol Standard (10.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (50.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (100.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (200.0 µg/mL)	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:



## Section 11. Toxicological information

### Skin contact

: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (50.0 µg/mL)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (100.0 µg/mL)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations

### Ingestion

: SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
SFC Caffeine in Methanol Standard (50.0 µg/mL)	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

## Section 11. Toxicological information

SFC Caffeine in Methanol Standard (100.0 µg/mL)	reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
SFC Caffeine in Methanol Standard (200.0 µg/mL)	reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
	reduced fetal weight increase in fetal deaths skeletal malformations

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No known significant effects or critical hazards.

## Section 11. Toxicological information

	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	May damage the unborn child.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	May damage the unborn child.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	May damage the unborn child.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	May damage the unborn child.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	May damage the unborn child.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	May damage the unborn child.
<b>Developmental effects</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No known significant effects or critical hazards.
<b>Fertility effects</b>	: SFC Caffeine in Methanol Standard (Solvent Blank)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	No known significant effects or critical hazards.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b>	
Oral	100 mg/kg
Dermal	300 mg/kg
Inhalation (vapors)	3 mg/l
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b>	
Oral	100 mg/kg
Dermal	300 mg/kg
Inhalation (vapors)	3 mg/l
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b>	
Oral	100 mg/kg
Dermal	300 mg/kg

## Section 11. Toxicological information

Inhalation (vapors)	3 mg/l
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b>	
Oral	100 mg/kg
Dermal	300 mg/kg
Inhalation (vapors)	3 mg/l
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b>	
Oral	100 mg/kg
Dermal	300.1 mg/kg
Inhalation (vapors)	3.001 mg/l

### Other information

SFC Caffeine in Methanol Standard (Solvent Blank)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
SFC Caffeine in Methanol Standard (2.0 µg/mL)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
SFC Caffeine in Methanol Standard (10.0 µg/mL)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
SFC Caffeine in Methanol Standard (50.0 µg/mL)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
SFC Caffeine in Methanol Standard (100.0 µg/mL)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
SFC Caffeine in Methanol Standard (200.0 µg/mL)	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

## Section 12. Ecological information

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
SFC Caffeine in Methanol Standard (Solvent Blank) Methanol	-0.77	<10	low
SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol	-0.77	<10	low
SFC Caffeine in Methanol Standard (10.0 µg/mL) Methanol	-0.77	<10	low
SFC Caffeine in Methanol Standard (50.0 µg/mL) Methanol	-0.77	<10	low
SFC Caffeine in Methanol Standard (100.0 µg/mL) Methanol	-0.77	<10	low
SFC Caffeine in Methanol Standard (200.0 µg/mL) Methanol	-0.77	<10	low

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

[United States - RCRA Toxic hazardous waste "U" List](#)

## Section 13. Disposal considerations










Ingredient	CAS #	Status	Reference number
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (Solvent Blank) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (10.0 µg/mL) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (50.0 µg/mL) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (100.0 µg/mL) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
<input checked="" type="checkbox"/> SFC Caffeine in Methanol Standard (200.0 µg/mL) Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	<input checked="" type="checkbox"/> N1230	<input checked="" type="checkbox"/> N1230	<input checked="" type="checkbox"/> N1230	<input checked="" type="checkbox"/> N1230	<input checked="" type="checkbox"/> N1230
UN proper shipping name	<input checked="" type="checkbox"/> Methanol solution	<input checked="" type="checkbox"/> METHANOL solution	<input checked="" type="checkbox"/> METANOL solution	<input checked="" type="checkbox"/> METHANOL solution	<input checked="" type="checkbox"/> Methanol solution
Transport hazard class(es)	<input checked="" type="checkbox"/> 	<input checked="" type="checkbox"/> (6.1)  	<input checked="" type="checkbox"/> (6.1)  	<input checked="" type="checkbox"/> (6.1)  	<input checked="" type="checkbox"/> (6.1)  
Packing group	II	II	II	II	II
Environmental hazards	<input checked="" type="checkbox"/> No.	No.	<input checked="" type="checkbox"/> No.	No.	No.

### Additional information

Remarks: Excepted Quantity

## Section 14. Transport information

- DOT Classification** : **Reportable quantity** 5000.4 lbs / 2270.2 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.  
**Limited quantity** Yes.  
**Packaging instruction** Exceptions: 150. Non-bulk: 202. Bulk: 242.  
**Quantity limitation** Passenger aircraft/rail: 1 L. Cargo aircraft: 60 L.  
**Special provisions** IB2, T7, TP2
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.26-2.36 (Class 6).  
**Explosive Limit and Limited Quantity Index** 1  
**Passenger Carrying Road or Rail Index** 1  
**Special provisions** 43
- Mexico Classification** : **Special provisions** 279
- IMDG** : **Emergency schedules** F-E, S-D  
**Special provisions** 279
- IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 1 L. Packaging instructions: 352. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.  
**Special provisions** A113
- 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

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

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312



## Section 15. Regulatory information

### Classification

SFC Caffeine in Methanol Standard (Solvent Blank)	<p>FLAMMABLE LIQUIDS - Category 2</p> <p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>
SFC Caffeine in Methanol Standard (2.0 µg/mL)	<p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>
SFC Caffeine in Methanol Standard (10.0 µg/mL)	<p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>
SFC Caffeine in Methanol Standard (50.0 µg/mL)	<p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>
SFC Caffeine in Methanol Standard (100.0 µg/mL)	<p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>
SFC Caffeine in Methanol Standard (100.0 µg/mL)	<p>ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 3  ACUTE TOXICITY (inhalation) - Category 3  SKIN IRRITATION - Category 2  EYE IRRITATION - Category 2A  TOXIC TO REPRODUCTION (Unborn child) - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  FLAMMABLE LIQUIDS - Category 2</p>

## Section 15. Regulatory information

Standard (200.0 µg/mL)

ACUTE TOXICITY (oral) - Category 3  
 ACUTE TOXICITY (dermal) - Category 3  
 ACUTE TOXICITY (inhalation) - Category 3  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (central nervous system (CNS), optic nerve) - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Narcotic effects) - Category 3

### Composition/information on ingredients

Name	%	Classification
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	100	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3

## Section 15. Regulatory information

<p><b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol</p>	<p>≥90</p>	<p>ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</p>
<p><b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol</p>	<p>≥90</p>	<p>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</p>

### SARA 313

	Product name	CAS number	%
<p><b>Form R - Reporting requirements</b></p>	<p><b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol</p>	<p>67-56-1</p>	<p>100</p>
	<p><b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol</p>	<p>67-56-1</p>	<p>≥90</p>
	<p><b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol</p>	<p>67-56-1</p>	<p>≥90</p>
	<p><b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol</p>	<p>67-56-1</p>	<p>≥90</p>
	<p><b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol</p>	<p>67-56-1</p>	<p>≥90</p>
	<p><b>SFC Caffeine in Methanol Standard (200.0 µg/</b></p>		

## Section 15. Regulatory information

	mL) Methanol	67-56-1	≥90
<b>Supplier notification</b>	<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	67-56-1	100
	<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	67-56-1	≥90
	<b>SFC Caffeine in Methanol Standard (10.0 µg/mL )</b> Methanol	67-56-1	≥90
	<b>SFC Caffeine in Methanol Standard (50.0 µg/mL )</b> Methanol	67-56-1	≥90
	<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	67-56-1	≥90
	<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	67-56-1	≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: METHANOL; METHYL ALCOHOL
- New York** : The following components are listed: Methanol
- New Jersey** : The following components are listed: METHYL ALCOHOL; METHANOL
- Pennsylvania** : The following components are listed: METHANOL

### California Prop. 65

**⚠ WARNING:** This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>Ingredient name</b>	<b>No significant risk level</b>	<b>Maximum acceptable dosage level</b>
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> Methanol	-	Yes.
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b> Methanol	-	Yes.
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b> Methanol	-	Yes.
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b> Methanol	-	Yes.
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b> Methanol	-	Yes.
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b> Methanol	-	Yes.

## Section 15. Regulatory information

### 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.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Other information

### History

<b>Date of issue</b>	: 07/16/2018
<b>Date of previous issue</b>	: 05/24/2016
<b>Version</b>	: 4

### Procedure used to derive the classification

Classification	Justification
<b>SFC Caffeine in Methanol Standard (Solvent Blank)</b> FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1	On basis of test data Expert judgment Expert judgment On basis of test data On basis of test data On basis of test data Expert judgment Expert judgment

## Section 16. Other information

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Expert judgment
<b>SFC Caffeine in Methanol Standard (2.0 µg/mL)</b>	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
<b>SFC Caffeine in Methanol Standard (10.0 µg/mL)</b>	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
<b>SFC Caffeine in Methanol Standard (50.0 µg/mL)</b>	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
<b>SFC Caffeine in Methanol Standard (100.0 µg/mL)</b>	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous	Calculation method

## Section 16. Other information

system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
<b>SFC Caffeine in Methanol Standard (200.0 µg/mL)</b>	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method

Indicates information that has changed from previously issued version.

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