SAFETY DATA SHEET



SFC Caffeine in Methanol Standard, Part Number 5190-0552

Section 1. Identification

Product identifier

: SFC Caffeine in Methanol Standard, Part Number 5190-0552

Part no. (chemical kit)

: 5190-0552

Part no.

: SFC Caffeine in Methanol Standard (Solvent 5190-0552-6

Blank)

SFC Caffeine in Methanol Standard (2.0 µg/ 5190-0552-1

mL)

SFC Caffeine in Methanol Standard (10.0 µg/ 5190-0552-2

mL)

SFC Caffeine in Methanol Standard (50.0 µg/ 5190-0552-3

mL)

SFC Caffeine in Methanol Standard (100.0 µg/ 5190-0552-4

mL)

SFC Caffeine in Methanol Standard (200.0 µg/ 5190-0552-5

mL)

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

Identified uses

: Reagents and Standards for Analytical Chemistry Laboratory Use

SFC Caffeine in Methanol Standard (Solvent 1 X 2 ml

Blank)

SFC Caffeine in Methanol Standard (2.0 µg/ 1 X 2 ml

mL)

SFC Caffeine in Methanol Standard (10.0 µg/ 1 X 2 ml

mL)

SFC Caffeine in Methanol Standard (50.0 µg/ 2 X 2 ml

mL)

SFC Caffeine in Methanol Standard (100.0 1 X 2 ml

µg/mL)

SFC Caffeine in Methanol Standard (200.0 1 X 2 ml

 $\mu g/mL$)

Supplier/Manufacturer

 Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

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

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

SFC Caffeine in Methanol Standard (2.0 µg/mL)

H225 FLAMMABLE LIQUIDS - Category 2

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H301 ACUTE TOXICITY (oral) - Category 3
H311 ACUTE TOXICITY (dermal) - Category 3
H331 ACUTE TOXICITY (inhalation) - Category 3

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

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

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

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

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

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

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

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

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

GHS label elements

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Hazard pictograms

Signal word

Hazard statements

: 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)

: 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)

: 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)

































Danger

Danger

Danger Danger

Danger

H225 - Highly flammable liquid and vapor.

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

H370 - Causes damage to organs. (central nervous

system (CNS), optic nerve) H225 - Highly flammable liquid and vapor.

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

H370 - Causes damage to organs.

H225 - Highly flammable liquid and vapor.

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

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H370 - Causes damage to organs.

H225 - Highly flammable liquid and vapor.

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		H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	H225 - Highly flammable liquid and vapor.
	,	H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.
		H370 - Causes damage to organs.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	H225 - Highly flammable liquid and vapor.
	(10 /	H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.
		H370 - Causes damage to organs.
<u>Precautionary statements</u>		
Prevention	: SFC Caffeine in Methanol Standard (Solvent Blank)	P280 - Wear protective gloves and protective clothing.
		P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash thoroughly after handling.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	P280 - Wear protective gloves and protective clothing.
		P210 - Keep away from heat, hot surfaces, sparks,
		open flames and other ignition sources. No smoking.
		P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this
		product.
		P264 - Wash thoroughly after handling.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	P280 - Wear protective gloves and protective clothing.
		P210 - Keep away from heat, hot surfaces, sparks,
		open flames and other ignition sources. No smoking. P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this product.
	CCC Coffeign in Mathemal	P264 - Wash thoroughly after handling.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	P280 - Wear protective gloves and protective clothing.
		P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash thoroughly after handling.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	P280 - Wear protective gloves and protective clothing.
	,	P210 - Keep away from heat, hot surfaces, sparks,
		open flames and other ignition sources. No smoking. P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this
		product.
	050 0.55	P264 - Wash thoroughly after handling.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	P280 - Wear protective gloves and protective clothing.
	- (-)	P210 - Keen away from heat, hot surfaces, snarks

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P270 - Do not eat, drink or smoke when using this

P260 - Do not breathe vapor.

Response

: SFC Caffeine in Methanol Standard (Solvent Blank)

product.

P264 - Wash thoroughly after handling.

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a

POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated

clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with

plenty of water.

SFC Caffeine in Methanol Standard (2.0 µg/mL)

P308 + P311 - IF exposed or concerned: Call a

POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a

POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated

clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

P308 + P311 - IF exposed or concerned: Call a

POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with

plenty of water.

SFC Caffeine in Methanol Standard (100.0 µg/mL)

P308 + P311 - IF exposed or concerned: Call a

POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a

POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON

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SFC Caffeine in Methanol Standard (200.0 µg/mL)

CENTER or doctor if you feel unwell. Wash with plenty of water.

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with

plenty of water.

Storage

: 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)

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Disposal

: 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)

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: 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)

None known.

None known.

None known.

None known.

None known.

None known.

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Other hazards which do not : SFC Caffeine in Methanol result in classification : Standard (Solvent Blank)

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)

None known.

None known.

None known.

None known.

None known.

None known.

Section 3. Composition/information on ingredients

Substance/mixture

: 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 SFC Caffeine in Methanol

Standard (200.0 µg/mL)

Substance

Mixture

Mixture

Mixture

Mixture

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Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
SFC Caffeine in Methanol Standard (Solvent Blank)			
Methanol	Methanol	100	67-56-1
SFC Caffeine in Methanol Standard (2.0 µg/mL)			
Methanol	Methanol	≥80	67-56-1
SFC Caffeine in Methanol Standard (10.0 µg/mL)			
Methanol	Methanol	≥80	67-56-1
SFC Caffeine in Methanol Standard (50.0 µg/mL)			
Methanol	Methanol	≥80	67-56-1
SFC Caffeine in Methanol Standard (100.0 µg/mL)			
Methanol	Methanol	≥80	67-56-1
SFC Caffeine in Methanol Standard (200.0 µg/mL)			
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SFC Caffeine in Methanol Standard, Part Number 5190-0552

Section 3. Composition/information on ingredients

Methanol | ≥80 | 67-56-1

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First-aid measures

Programme Attacks of	•		
Description of	r necessarv	/ tirst aid	measures

Eye contact

: 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)

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

Immediately flush eyes with plenty of water,

Inhalation

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,

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If it is suspected

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

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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)

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.

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.

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.

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.

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

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Skin contact

: SFC Caffeine in Methanol Standard (Solvent Blank)

dangerous to the person providing aid to give mouthto-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.

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 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.

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Ingestion

: 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)

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give

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SFC Caffeine in Methanol Standard (200.0 µg/mL)

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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

: 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 known significant effects or critical hazards.

Inhalation

: 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. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Skin contact

: 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)

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

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Ingestion

SFC Caffeine in Methanol Standard (100.0 μg/mL) SFC Caffeine in Methanol Standard (200.0 μg/mL)

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 damage to organs following a single exposure in contact with skin. Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact

EFC 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 data.

Inhalation

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

No specific data.

Skin contact

: 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 data.

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Ingestion

: 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 data.

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

Notes to physician

: 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)

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

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 treatment.

Protection of first-aiders

: 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

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 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

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SFC Caffeine in Methanol Standard (10.0 µg/mL)

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

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, CO₂, water spray (fog) or foam.

Use dry chemical, CO₂, water spray (fog) or foam.

Use dry chemical, CO₂, water spray (fog) or foam.

Use dry chemical, CO₂, water spray (fog) or foam.

Use dry chemical, CO₂, water spray (fog) or foam.

Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

Standard (200.0 μg/mL)

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)

Do not use water jet.

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Section 5. Fire-fighting measures

SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL) Do not use water jet.

Do not use water jet.

Specific hazards arising from the chemical

: 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)

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. 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. 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. 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. 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. 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.

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Section 5. Fire-fighting measures

Hazardous thermal				
decomposition products				

: 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.

Special protective actions for fire-fighters

: 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 area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SFC Caffeine in Methanol Standard (50.0 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 (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

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Section 5. Fire-fighting measures

SFC Caffeine in Methanol Standard (200.0 µg/mL)

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.

area if this can be done without risk. Use water spray

Special protective equipment for fire-fighters

: 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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 Standard (2.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 Standard (10.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

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Section 6. Accidental release measures

SFC Caffeine in Methanol Standard (50.0 µg/mL)

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.

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 Standard (100.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 Standard (200.0 µg/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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.

For emergency responders : 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)

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". 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". 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". 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". 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". 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".

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Section 6. Accidental release measures

Environmental precautions

: 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).

Methods and materials for containment and cleaning up

Methods for cleaning up

: 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-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 (10.0 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 (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

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Section 6. Accidental release measures

SFC Caffeine in Methanol Standard (100.0 µg/mL)

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 (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

Precautions for safe handling

Protective measures

: 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)

Put on appropriate personal protective equipment (see Section 8). 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). 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). 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

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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)

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). 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). 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). 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.

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Advice on general occupational hygiene : 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)

Conditions for safe storage, : SFC Caffeine in Methanol including any incompatibilities

Standard (Solvent Blank)

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 carefully resealed and kept upright to prevent

(64.4 to 77°F). Store in accordance with local

SFC Caffeine in Methanol Standard (2.0 µg/mL)

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

Eating, drinking and smoking should be prohibited in

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

additional information on hygiene measures.

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.

Store between the following temperatures: 18 to 25°C

(64.4 to 77°F). Store in accordance with local

for use. Containers that have been opened must be leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store between the following temperatures: 18 to 25°C

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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)

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.

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.

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.

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.

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local

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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 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SFC Caffeine in Methanol Standard (Solvent Blank)	
Methanol	CA Alberta Provincial (Canada, 6/2018).
	Absorbed through skin.
	OEL: 262 mg/m³ 8 hours.
	OEL: 200 ppm 8 hours.
	OEL: 250 ppm 15 minutes.
	OEL: 328 mg/m³ 15 minutes.
	CA British Columbia Provincial (Canada,
	6/2023). Absorbed through skin.
	TWA: 200 ppm 8 hours.
	STEL: 250 ppm 15 minutes.
	CA Ontario Provincial (Canada, 6/2019).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	STEL: 250 ppm 15 minutes.
	CA Quebec Provincial (Canada, 6/2022).
	Absorbed through skin.
	TWAEV: 200 ppm 8 hours.
	TWAEV: 262 mg/m ³ 8 hours.
	STEV: 250 ppm 15 minutes.
	STEV: 328 mg/m³ 15 minutes.
	CA Saskatchewan Provincial (Canada,
	7/2013). Absorbed through skin.
	STEL: 250 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA. 200 ppill 6 flours.
SFC Caffeine in Methanol Standard (2.0 µg/mL)	
Methanol	CA Alberta Provincial (Canada, 6/2018).
victiano	Absorbed through skin.
	OEL: 262 mg/m³ 8 hours.
	OEL: 202 mg/m 8 hours.
	OEL: 200 ppm o nours. OEL: 250 ppm 15 minutes.
	OEL: 328 mg/m³ 15 minutes.
	CA British Columbia Provincial (Canada,
	6/2023). Absorbed through skin.
	TWA: 200 ppm 8 hours.
	STEL: 250 ppm 15 minutes.
	CA Ontario Provincial (Canada, 6/2019).

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Section 8. Exposure controls/personal protection

Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Quebec Provincial (Canada, 6/2022).

Absorbed through skin.

TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

SFC Caffeine in Methanol Standard (10.0 µg/mL)

Methanol

CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.

OEL: 262 mg/m³ 8 hours. OEL: 200 ppm 8 hours. OEL: 250 ppm 15 minutes. OEL: 328 mg/m³ 15 minutes.

CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019).

Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Quebec Provincial (Canada, 6/2022).

Absorbed through skin.

TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

SFC Caffeine in Methanol Standard (50.0 µg/mL)

Methanol

CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.

OEL: 262 mg/m³ 8 hours. OEL: 200 ppm 8 hours. OEL: 250 ppm 15 minutes. OEL: 328 mg/m³ 15 minutes.

CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019). Absorbed through skin.

TWA: 200 ppm 8 hours.

STEL: 250 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022).

Absorbed through skin.

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Section 8. Exposure controls/personal protection

TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

SFC Caffeine in Methanol Standard (100.0 µg/mL)

Methanol

CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.

OEL: 262 mg/m³ 8 hours. OEL: 200 ppm 8 hours. OEL: 250 ppm 15 minutes. OEL: 328 mg/m³ 15 minutes.

CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019).

Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Quebec Provincial (Canada, 6/2022). Absorbed through skin.

TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

SFC Caffeine in Methanol Standard (200.0 μg/mL)

Methanol

CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.

OEL: 262 mg/m³ 8 hours. OEL: 200 ppm 8 hours. OEL: 250 ppm 15 minutes. OEL: 328 mg/m³ 15 minutes.

CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019). Absorbed through skin.

TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

CA Quebec Provincial (Canada, 6/2022).

Absorbed through skin.

TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

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Section 8. Exposure controls/personal protection

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

Biological exposure indices

No exposure indices known.

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: safety glasses with side-shields.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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.

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

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Physical state : SFC Caffeine in Methanol Liquid. [Clear.] Standard (Solvent Blank) SFC Caffeine in Methanol Liquid. Standard (2.0 µg/mL) SFC Caffeine in Methanol Liquid. Standard (10.0 µg/mL) SFC Caffeine in Methanol Liquid. Standard (50.0 µg/mL) SFC Caffeine in Methanol Liquid. Standard (100.0 µg/mL) SFC Caffeine in Methanol

Liquid.

Color SFC Caffeine in Methanol Colorless.

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)

Standard (200.0 µg/mL)

Colorless.

Colorless.

Colorless.

Colorless.

Colorless.

SFC Caffeine in Methanol Odor

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

Characteristic.

Not available.

Not available.

Not available.

Not available.

Not available.

Standard (200.0 µg/mL)

: 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)

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

pH

Odor threshold

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	SFC Caffeine in Methanol	Not available.
	Standard (Solvent Blank) SFC Caffeine in Methanol	Not available.
	Standard (2.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not available.
	SFC Caffeine in Methanol	Not available.
	Standard (50.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not available.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
Melting point/freezing point	: 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)
Boiling point, initial boiling point, and boiling range	: 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)
Flash point	: SFC Caffeine in Methanol Standard (Solvent Blank)	Closed cup: 11.1°C (52°F) [Abel-Pensky]
	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)
Evaporation rate	: 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.

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		SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not available.
Flammability	:	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.
Lower and upper explosion limit/flammability limit	:	SFC Caffeine in Methanol Standard (Solvent Blank)	Lower: 6.7%
•		,	Upper: 36%
		SFC Caffeine in Methanol Standard (2.0 µg/mL)	Lower: 6.7%
		(, , ,	Upper: 36%
		SFC Caffeine in Methanol Standard (10.0 µg/mL)	Lower: 6.7%
		, , , , , ,	Upper: 36%
		SFC Caffeine in Methanol Standard (50.0 µg/mL)	Lower: 6.7%
			Upper: 36%
		SFC Caffeine in Methanol Standard (100.0 µg/mL)	Lower: 6.7%
			Upper: 36%
		SFC Caffeine in Methanol Standard (200.0 µg/mL)	Lower: 6.7%
			Upper: 36%
Vapor pressure	:	FC Caffeine in Methanol Standard (Solvent Blank)	13.3 kPa (100 mm Hg)
		SFC Caffeine in Methanol Standard (2.0 µg/mL)	13.3 kPa (100 mm Hg)
		SFC Caffeine in Methanol Standard (10.0 µg/mL)	13.3 kPa (100 mm Hg)
		SFC Caffeine in Methanol Standard (50.0 µg/mL)	13.3 kPa (100 mm Hg)
		SFC Caffeine in Methanol Standard (100.0 µg/mL)	13.3 kPa (100 mm Hg)
		SFC Caffeine in Methanol Standard (200.0 µg/mL)	13.3 kPa (100 mm Hg)
Relative vapor density	:	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]

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Relative density	: SFC Caffeine in Methanol Standard (Solvent Blank)	0.791	
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	0.791	
	SFC Caffeine in Methanol	0.791	
	Standard (10.0 µg/mL) SFC Caffeine in Methanol	0.791	
	Standard (50.0 µg/mL) SFC Caffeine in Methanol	0.791	
	Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)	0.791	
Solubility(ies)	: Media		Result
	SFC Caffeine in Methanol S (Solvent Blank) water		Soluble
	SFC Caffeine in Methanol \$ (2.0 µg/mL)	Standard	
	water SFC Caffeine in Methanol \$	Standard	Soluble
	(10.0 μg/mL) water SFC Caffeine in Methanol S	Standard	Soluble
	(50.0 µg/mL) water	24	Soluble
	SFC Caffeine in Methanol \$ (100.0 µg/mL)	Standard	
	water SFC Caffeine in Methanol 9	Standard	Soluble
	(200.0 μg/mL) water		Soluble
Partition coefficient: n-	: SFC Caffeine in Methanol	-0.77	
octanol/water	Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL)	Not applica	able.
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Not applica	able.
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Not applica	able.
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Not applica	able.
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Not applica	able.
Auto-ignition temperature	: SFC Caffeine in Methanol Standard (Solvent Blank)	385°C (725	5°F) [DIN 51794]
	SFC Caffeine in Methanol Standard (2.0 μg/mL)	385°C (725	5°F)
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	385°C (725	5°F)
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	385°C (725	5°F)
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	385°C (725	,
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	385°C (725	5°F)

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Decomposition temperature

: 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)

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Viscosity

: 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)

Dynamic: 0.54 to 0.59 mPa·s (0.54 to 0.59 cP)

Not available.

Not available.

Not available.

Not available.

Not available.

Particle characteristics
Median particle size

: 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)

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Section 10. Stability and reactivity

Reactivity

: 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.

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Section 10. Stability and reactivity

Chemical stability

: 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.

Possibility of hazardous reactions

: 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.
Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid

: SFC Caffeine in Methanol Standard (Solvent Blank)

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 (2.0 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 (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.

SFC Caffeine in Methanol Standard (50.0 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 (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.

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Section 10. Stabilincompatible materials	: SFC Caffeine in Methanol	Reactive or incompatible with the following materials:
meompatible materials	Standard (Solvent Blank)	reactive of incompatible with the following materials.
		oxidizing materials
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Reactive or incompatible with the following materials:
		oxidizing materials
	SFC Caffeine in Methanol Standard (10.0 µg/mL)	Reactive or incompatible with the following materials:
		oxidizing materials
	SFC Caffeine in Methanol Standard (50.0 µg/mL)	Reactive or incompatible with the following materials:
	, , ,	oxidizing materials
	SFC Caffeine in Methanol Standard (100.0 µg/mL)	Reactive or incompatible with the following materials:
	, ,	oxidizing materials
	SFC Caffeine in Methanol Standard (200.0 µg/mL)	Reactive or incompatible with the following materials:
	, ,	oxidizing materials
Hazardous decomposition	: SFC Caffeine in Methanol	Under normal conditions of storage and use,
products	Standard (Solvent Blank)	hazardous decomposition products should not be produced.
	SFC Caffeine in Methanol Standard (2.0 µg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SFC Caffeine in Methanol	Under normal conditions of storage and use,

SFC Caffeine in Methanol Standard (50.0 µg/mL)

Standard (10.0 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 decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SFC Caffeine in Methanol Standard (Solvent Blank)				
Methanol	LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rat Rat Rabbit Rat	189.95 mg/l 145000 ppm 83.84 mg/l 64000 ppm 15800 mg/kg 5600 mg/kg	1 hours 1 hours 4 hours 4 hours -
SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol	LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor	Rat Rat Rat Rat	189.95 mg/l 145000 ppm 83.84 mg/l 64000 ppm	1 hours 1 hours 4 hours 4 hours

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	lines n	In	1.5000 "	T T
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
SFC Caffeine in Methanol				
Standard (10.0 µg/mL)				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
SFC Caffeine in Methanol				
Standard (50.0 µg/mL) Methanol	LCEO Inhalation Variation	Det	100 05 mm = //	1 hours
ivietrianoi	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor		83.84 mg/l	4 hours
	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	64000 ppm	4 hours
			15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
SFC Caffeine in Methanol				
Standard (100.0 µg/mL)				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
IVICTIATIO	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	- Hours
	LD50 Definal	Rat	5600 mg/kg	-
	LDOU OIGI	ı vat	Jood Hig/kg	_
SFC Caffeine in Methanol				
Standard (200.0 µg/mL)				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Institution 10 companies				

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SFC Caffeine in Methanol Standard (Solvent Blank)					
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
SFC Caffeine in Methanol Standard (2.0 µg/mL)					
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	_	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
SFC Caffeine in Methanol Standard (10.0 µg/mL)					

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Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
SFC Caffeine in Methanol					
Standard (50.0 µg/mL)					
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
SFC Caffeine in Methanol					
Standard (100.0 µg/mL)					
Methanol	Eyes - Moderate irritant	Rabbit	_	24 hours 100	_
				mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
SFC Caffeine in Methanol					
Standard (200.0 µg/mL) Methanol	Eyes - Moderate irritant	Rabbit		24 hours 100	<u> </u>
IVICTIALIO	Lycs - Moderate Initant	Rabbit		mg	-
	Eyes - Moderate irritant	Rabbit	_	40 mg	-
	Skin - Moderate irritant	Rabbit	_	24 hours 20	_
				mg	

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

Carcinogenicity

Conclusion/Summary

: Not available.

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
SFC Caffeine in Methanol Standard (Solvent Blank) Methanol	Category 1	-	central nervous system (CNS), optic nerve
SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol	Category 1	-	central nervous system (CNS), optic nerve
SFC Caffeine in Methanol Standard (10.0 µg/mL) Methanol	Category 1	-	central nervous system (CNS),

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			optic nerve
SFC Caffeine in Methanol Standard (50.0 μg/mL) Methanol	Category 1	-	central nervous system (CNS), optic nerve
SFC Caffeine in Methanol Standard (100.0 µg/mL) Methanol	Category 1	-	central nervous system (CNS), optic nerve
SFC Caffeine in Methanol Standard (200.0 µg/mL) Methanol	Category 1	-	central nervous system (CNS), optic nerve

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 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)

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation,

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

: 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 known significant effects or critical hazards.

Inhalation

EFC 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)

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

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Skin contact

Ingestion

SFC Caffeine in Methanol Standard (200.0 µg/mL)

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)

Standard (200.0 μg/mL)

FC Caffeine in Methanol Standard (Solvent Blank)

FC Caffeine in Methanol Standard (2.0 μg/mL)

FC Caffeine in Methanol Standard (10.0 μg/mL)

FC Caffeine in Methanol Standard (50.0 μg/mL)

FC Caffeine in Methanol Standard (100.0 μg/mL)

FC Caffeine in Methanol Standard (200.0 μg/mL)

Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: 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 data.

Inhalation

: 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 (100.0 μg/mL) SFC Caffeine in Methanol

Standard (200.0 µg/mL)

No specific data.

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Skin contact : SFC Caffeine in Methanol

Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL)

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)

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 data.

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

Short term exposure

Potential immediate

effects

Ingestion

: Not available.

Potential delayed effects : Not available.

Long term exposure

Carcinogenicity

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : SFC Caffeine in Methanol

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)

Standard (Solvent Blank)

SFC Caffeine in Methanol Standard (200.0 µg/mL)

: 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 No known significant effects or critical hazards.

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Mutagenicity

Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)

No known significant effects or critical hazards.

SFC Caffeine in Methanol Standard (Solvent Blank)

No known significant effects or critical hazards. No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Standard (100.0 µg/mL) SFC Caffeine in Methanol No known significant effects or critical hazards.

Standard (200.0 µg/mL)

No known significant effects or critical hazards.

SFC Caffeine in Methanol Reproductive toxicity

No known significant effects or critical hazards.

Standard (Solvent Blank) SFC Caffeine in Methanol Standard (2.0 µg/mL) Standard (10.0 µg/mL)

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (200.0 µg/mL)

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SFC Caffeine in Methanol Standard (Solvent Blank) Methanol	100	300	N/A	3	N/A
SFC Caffeine in Methanol Standard (2.0 µg/mL) SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol	100.0 100	300.0 300	N/A N/A	3.0	N/A N/A
SFC Caffeine in Methanol Standard (10.0 μg/mL) SFC Caffeine in Methanol Standard (10.0 μg/mL) Methanol	100.0 100	300.0 300	N/A N/A	3.0	N/A N/A
SFC Caffeine in Methanol Standard (50.0 μg/mL) SFC Caffeine in Methanol Standard (50.0 μg/mL) Methanol	100.0 100	300.0 300	N/A N/A	3.0	N/A N/A
SFC Caffeine in Methanol Standard (100.0 µg/mL) SFC Caffeine in Methanol Standard (100.0 µg/mL) Methanol	100.0 100	300.0 300	N/A N/A	3.0 3	N/A N/A
SFC Caffeine in Methanol Standard (200.0 µg/mL)					

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SFC Caffeine in Methanol Standard, Part Number 5190-0552							
Section 11. Toxicological information							
SFC Caffeine Methanol	in Methanol Standard (200.0 μg/mL)	100.0 100	300.1 300	N/A N/A	3.0	N/A N/A	

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. Narcotic effect. May cause nervous system disturbances.
	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. Narcotic effect. May cause nervous system disturbances.
	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. Narcotic effect. May cause nervous system disturbances.
	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. Narcotic effect. May cause nervous system disturbances.
	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. Narcotic effect. May cause nervous system disturbances.

Toxicity

Product/ingredient name	Result	Species	Exposure
SFC Caffeine in Methanol			
Standard (Solvent Blank)			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
SFC Caffeine in Methanol Standard (2.0 µg/mL)			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours

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,			
	Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
SFC Caffeine in Methanol Standard (10.0 µg/mL)			
Methanol	Acute EC50 2736 mg/l Marine water Acute LC50 2500000 μg/l Marine water	Algae - <i>Ulva pertusa</i> Crustaceans - <i>Crangon crangon</i> - Adult	96 hours 48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water Chronic NOEC 9.96 mg/l Marine water	Fish - <i>Danio rerio</i> - Egg Algae - <i>Ulva pertusa</i>	96 hours 96 hours
	omorno NOLO 5.50 mg/i wanne water	Tagae Ona portaea	oo nours
SFC Caffeine in Methanol Standard (50.0 µg/mL)			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
SFC Caffeine in Methanol Standard (100.0 µg/mL)			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
SFC Caffeine in Methanol Standard (200.0 µg/mL)			
Methanol	Acute EC50 2736 mg/l Marine water Acute LC50 2500000 µg/l Marine water	Algae - <i>Ulva pertusa</i> Crustaceans - <i>Crangon crangon</i> - Adult	96 hours 48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water Chronic NOEC 9.96 mg/l Marine water	Fish - <i>Danio rerio</i> - Egg Algae - <i>Ulva pertusa</i>	96 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SFC Caffeine in Methanol Standard (Solvent Blank) Methanol	-	-	Readily
SFC Caffeine in Methanol Standard (2.0 µg/mL) Methanol	-	-	Readily

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SFC Caffeine in Methanol Standard, Part Number 5190-0552

Section 12. Ecological information

SFC Caffeine in Methanol Standard (10.0 µg/mL) Methanol	-	-	Readily
SFC Caffeine in Methanol Standard (50.0 µg/mL) Methanol	-	-	Readily
SFC Caffeine in Methanol Standard (100.0 µg/mL) Methanol	-	-	Readily
SFC Caffeine in Methanol Standard (200.0 µg/mL) Methanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	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

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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Section 13. Disposal considerations

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.

Section 14. Transport information

	TDG Classification	IMDG	IATA
UN number	UN1230	UN1230	UN1230
UN proper shipping name	METHANOL solution	METHANOL solution	Methanol solution
Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Proof of classification statement

Additional information

Remarks: Excepted Quantity

TDG Classification

IMDG

IATA

: 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).

: 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

: Emergency schedules F-E, S-D

Special provisions 279

: 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.

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Section 14. Transport information

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: methanol

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Canada : All components are listed or exempted.
United States : All components are active or exempted.

Section 16. Other information

History

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revision

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

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Section 16. Other information

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Classification	Justification
FC Caffeine in Methanol Standard (Solvent Blank) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Expert judgment Expert judgment On basis of test data Expert judgment
SFC Caffeine in Methanol Standard (2.0 µg/mL) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
SFC Caffeine in Methanol Standard (10.0 µg/mL) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
SFC Caffeine in Methanol Standard (50.0 μg/mL) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method
SFC Caffeine in Methanol Standard (100.0 µg/mL) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
SFC Caffeine in Methanol Standard (200.0 µg/mL) FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method

▼ Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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