

SAFETY DATA SHEET

Emit® Caffeine Assay

SIEMENS

MSDS
no.

SY6P419

Section 1. Identification

GHS product identifier	:	Emit® Caffeine Assay	
Product code	:	6P419; 10445371	
Other means of identification	:	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	6P419, JP419 6P419, JP419 6P419 6A159
Product type	:	Liquid.	

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

Not applicable.

Manufactured/supplied	:	Siemens Healthcare Diagnostics Inc. 511 Benedict Avenue Tarrytown, NY 10591-5097 USA 1-877-229-3711 (800) 424-9300 (CHEMTREC) (24/365)
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Section 2. Hazards identification

OSHA/HCS status	:	Emit® Caffeine Assay, Reagent A	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
		Emit® Caffeine Assay, Reagent B	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
		Emit® Caffeine Calibrators	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
		Emit® Drug Assay Buffer Concentrate	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B	Not classified. ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1B SKIN SENSITIZATION - Category 1B
		Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not classified. Not classified.
		Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.	

GHS label elements

Section 2. Hazards identification

Hazard pictograms :



Signal word

- : Emit® Caffeine Assay, Reagent A
- Emit® Caffeine Assay, Reagent B
- Emit® Caffeine Calibrators
- Emit® Drug Assay Buffer Concentrate

No signal word.

Danger

No signal word.

No signal word.

Hazard statements

- : Emit® Caffeine Assay, Reagent A
- Emit® Caffeine Assay, Reagent B

No known significant effects or critical hazards.

H302 + H312 - Harmful if swallowed or in contact with skin.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Precautionary statements

Prevention

- : Emit® Caffeine Assay, Reagent A
- Emit® Caffeine Assay, Reagent B

Not applicable.

P264 - Wash hands thoroughly after handling.

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

P260 - Do not breathe dust.

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

P272 - Contaminated work clothing should not be allowed out of the workplace.

Not applicable.

Not applicable.

Not applicable.

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P302 + P352 + P312 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing. Wash contaminated clothing before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Not applicable.

Not applicable.

Response

- Emit® Caffeine Calibrators
- Emit® Drug Assay Buffer Concentrate

- : Emit® Caffeine Assay, Reagent A
- Emit® Caffeine Assay, Reagent B

Not applicable.

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P302 + P352 + P312 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing. Wash contaminated clothing before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Not applicable.

Not applicable.

- Emit® Caffeine Calibrators
- Emit® Drug Assay Buffer Concentrate

Section 2. Hazards identification

Storage	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not applicable. Not applicable.
Supplemental label elements	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	None known. None known. None known. None known.
Hazards not otherwise classified	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Mixture Mixture Mixture Mixture
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Ingredient name	%	CAS number
Emit® Caffeine Assay, Reagent A 2-methyl-2H-isothiazol-3-one hydrochloride	0.1 - 0.9	26172-54-3
Emit® Caffeine Assay, Reagent B 2-methyl-2H-isothiazol-3-one hydrochloride sodium azide	1.3 1.3	26172-54-3 26628-22-8
Emit® Drug Assay Buffer Concentrate 2-methyl-2H-isothiazol-3-one hydrochloride	0.38	26172-54-3

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Emit® Caffeine Assay, Reagent A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Emit® Caffeine Assay, Reagent B	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.
	Emit® Caffeine Calibrators	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Emit® Drug Assay Buffer Concentrate	Immediately flush eyes with plenty of water,

Section 4. First aid measures

Inhalation

: Emit® Caffeine Assay, Reagent A

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Skin contact

Emit® Caffeine Calibrators

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Emit® Drug Assay Buffer Concentrate

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Emit® Caffeine Assay, Reagent A

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Emit® Caffeine Assay, Reagent B

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Emit® Caffeine Calibrators

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

	Emit® Drug Assay Buffer Concentrate	occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Emit® Caffeine Assay, Reagent A	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Emit® Caffeine Assay, Reagent B	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. 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.
	Emit® Caffeine Calibrators	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Emit® Drug Assay Buffer Concentrate	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Emit® Caffeine Assay, Reagent A	No known significant effects or critical hazards.
	Emit® Caffeine Assay, Reagent B	Causes serious eye irritation.
	Emit® Caffeine Calibrators	No known significant effects or critical hazards.
	Emit® Drug Assay Buffer Concentrate	No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No known significant effects or critical hazards. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No known significant effects or critical hazards. Harmful if swallowed. Irritating to mouth, throat and stomach. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data. No specific data.
Inhalation	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: wheezing and breathing difficulties asthma No specific data. No specific data.
Skin contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: irritation redness No specific data. No specific data.
Ingestion	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. No specific data. No specific data. No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : 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 : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : 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

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

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

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

Advice on general occupational hygiene : 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.

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Emit® Caffeine Assay, Reagent B sodium azide	<p>ACGIH TLV (United States, 6/2013). Notes: as hydrazoic acid vapor C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor</p> <p>ACGIH TLV (United States, 6/2013). C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide</p> <p>NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3 CEIL: 0.3 mg/m³, (NAN3)</p> <p>NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3 CEIL: 0.1 ppm, (as HN3)</p> <p>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3 CEIL: 0.1 ppm, (as HN3)</p> <p>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3 CEIL: 0.3 mg/m³, (as NaN3)</p>

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Solid. [Powder.] Solid. [Powder.] Solid. [Powdered solid.] Liquid.
Color	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Tan. [Light] Tan. [Light] Not available. Clear. Colorless.
Odor	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Odorless. Odorless. Odorless. Not available.
pH	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not applicable. Not applicable. Not applicable. 8 [Conc. (% w/w): 1%]
Flash point	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	[Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials and organic materials.
Relative density	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Solubility in water	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Partition coefficient: n-octanol/water	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.

Section 9. Physical and chemical properties

Viscosity	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
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Section 10. Stability and reactivity

Reactivity	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	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.
Chemical stability	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	The product is stable. The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: No specific data.	
Incompatible materials	: No specific data.	
Hazardous decomposition products	: 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
Emit® Caffeine Assay, Reagent B sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

Conclusion/Summary	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
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Irritation/Corrosion

Not available.

Conclusion/Summary

Skin	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Eyes	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.

Section 11. Toxicological information

Respiratory	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Sensitization	Not available.				
Conclusion/Summary					
Skin	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Respiratory	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Mutagenicity	Not available.				
Conclusion/Summary	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Carcinogenicity	Not available.				
Conclusion/Summary	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Reproductive toxicity	Not available.				
Conclusion/Summary	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Teratogenicity	Not available.				
Conclusion/Summary	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.			
Specific target organ toxicity (single exposure)	Not available.				
Specific target organ toxicity (repeated exposure)	Not available.				
Aspiration hazard	Not available.				
Information on the likely routes of exposure	: Not available.				
Potential acute health effects					
Date of issue/Date of revision	: 1/22/2016.	Date of previous issue	: 7/27/2015.	Version	: 1.04
					11/20

Section 11. Toxicological information

Eye contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards.
Skin contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No known significant effects or critical hazards. Harmful if swallowed. Irritating to mouth, throat and stomach. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data. No specific data.
Inhalation	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: wheezing and breathing difficulties asthma No specific data. No specific data.
Skin contact	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. Adverse symptoms may include the following: irritation redness No specific data. No specific data.

Section 11. Toxicological information

Ingestion	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No specific data. No specific data. No specific data. No specific data.
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Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Potential delayed effects	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.

Long term exposure

Potential immediate effects	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
Potential delayed effects	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available. Not available. Not available. Not available.	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Emit® Caffeine Assay, Reagent B Oral Dermal	1852.5 mg/kg 1538.5 mg/kg
Emit® Drug Assay Buffer Concentrate Oral	40000 mg/kg

Interactive effects	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
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Other information	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not available. Not available. Not available. Not available.
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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Emit® Caffeine Assay, Reagent B			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours

Conclusion/Summary

- : Emit® Caffeine Assay, Reagent A
- : Emit® Caffeine Assay, Reagent B
- : Emit® Caffeine Calibrators
- : Emit® Drug Assay Buffer Concentrate

Persistence and degradability

Conclusion/Summary

- : Emit® Caffeine Assay, Reagent A
- : Emit® Caffeine Assay, Reagent B
- : Emit® Caffeine Calibrators
- : Emit® Drug Assay Buffer Concentrate

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc})

- : Emit® Caffeine Assay, Reagent A
- : Emit® Caffeine Assay, Reagent B
- : Emit® Caffeine Calibrators
- : Emit® Drug Assay Buffer Concentrate

Mobility

- : Emit® Caffeine Assay, Reagent A
- : Emit® Caffeine Assay, Reagent B
- : Emit® Caffeine Calibrators
- : Emit® Drug Assay Buffer Concentrate

Other adverse effects

- : No known significant effects or critical hazards.

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- : Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

United States - RCRA Acute hazardous waste "P" List

Ingredient	CAS #	Status	Reference number
Emit® Caffeine Assay, Reagent B Sodium azide	26628-22-8	Listed	P105

Section 14. Transport information

DOT Classification

UN number	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not regulated. Not regulated. Not regulated. Not regulated.
UN proper shipping name	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Transport hazard class(es)	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Packing group	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Environmental hazards	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No. No. No. No.
Additional information	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -

TDG Classification

UN number	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not regulated. Not regulated. Not regulated. Not regulated.
UN proper shipping name	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Transport hazard class(es)	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Packing group	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Environmental hazards	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No. No. No. No.

Section 14. Transport information

Additional information	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Mexico Classification

UN number	Emit® Caffeine Assay, Reagent A	Not regulated.
	Emit® Caffeine Assay, Reagent B	Not regulated.
	Emit® Caffeine Calibrators	Not regulated.
	Emit® Drug Assay Buffer Concentrate	Not regulated.

UN proper shipping name	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Transport hazard class(es)	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Packing group	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Environmental hazards	Emit® Caffeine Assay, Reagent A	No.
	Emit® Caffeine Assay, Reagent B	No.
	Emit® Caffeine Calibrators	No.
	Emit® Drug Assay Buffer Concentrate	No.

Additional information	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

ADR/RID

UN number	Emit® Caffeine Assay, Reagent A	Not regulated.
	Emit® Caffeine Assay, Reagent B	Not regulated.
	Emit® Caffeine Calibrators	Not regulated.
	Emit® Drug Assay Buffer Concentrate	Not regulated.

UN proper shipping name	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Transport hazard class(es)	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Packing group	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Section 14. Transport information

Environmental hazards	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No. No. No. No.
Additional information	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -

IMDG

UN number	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not regulated. Not regulated. Not regulated. Not regulated.
UN proper shipping name	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Transport hazard class(es)	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -

Packing group	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Environmental hazards	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	No. No. No. No.
Additional information	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -

IATA

UN number	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not regulated. Not regulated. Not regulated. Not regulated.
UN proper shipping name	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -
Transport hazard class(es)	Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	- - - -

Section 14. Transport information

Packing group	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-
Environmental hazards	Emit® Caffeine Assay, Reagent A	No.
	Emit® Caffeine Assay, Reagent B	No.
	Emit® Caffeine Calibrators	No.
	Emit® Drug Assay Buffer Concentrate	No.
Additional information	Emit® Caffeine Assay, Reagent A	-
	Emit® Caffeine Assay, Reagent B	-
	Emit® Caffeine Calibrators	-
	Emit® Drug Assay Buffer Concentrate	-

Special precautions for user : Emit® Caffeine Assay, Reagent A

Emit® Caffeine Assay, Reagent B

Emit® Caffeine Calibrators

Emit® Drug Assay Buffer Concentrate

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

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

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

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations	<p>TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-</p> <p>TSCA 8(a) CDR Exempt/Partial exemption: Not determined</p> <p>United States inventory (TSCA 8b): Not determined.</p>
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

Section 15. Regulatory information

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Emit® Caffeine Assay, Reagent A sodium azide	0.1 - 0.9	Yes.	500	-	1000	-
Emit® Caffeine Assay, Reagent B sodium azide	1.3	Yes.	500	-	1000	-
Emit® Caffeine Calibrators sodium azide	0.5	Yes.	500	-	1000	-
Emit® Drug Assay Buffer Concentrate sodium azide	0.8	Yes.	500	-	1000	-

SARA 304 RQ : 129032.3 lbs / 58580.6 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Emit® Caffeine Assay, Reagent A 2-methyl-2H-isothiazol-3-one hydrochloride	0.1 - 0.9	No.	No.	No.	Yes.	No.
Emit® Caffeine Assay, Reagent B 2-methyl-2H-isothiazol-3-one hydrochloride sodium azide	1.3	No.	No.	No.	Yes.	No.
Emit® Drug Assay Buffer Concentrate 2-methyl-2H-isothiazol-3-one hydrochloride	0.38	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Emit® Caffeine Assay, Reagent B sodium azide	26628-22-8	1.3
Supplier notification	Emit® Caffeine Assay, Reagent B sodium azide	26628-22-8	1.3

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

State regulations

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : None of the components are listed.
- Pennsylvania** : None of the components are listed.

International regulations

Section 15. Regulatory information

Chemical Weapons Convention List Schedule I Chemicals	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not listed Not listed Not listed Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not listed Not listed Not listed Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Emit® Caffeine Assay, Reagent A Emit® Caffeine Assay, Reagent B Emit® Caffeine Calibrators Emit® Drug Assay Buffer Concentrate	Not listed Not listed Not listed Not listed

Section 16. Other information

History

Date of issue/Date of revision : 1/22/2016.

Version : 1.04

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

 Indicates information that has changed from previously issued version.

Notice to reader

Allergen : Not available.