

SAFETY DATA SHEET

SIEMENS

Atellica™ IM Enhanced Estradiol (eE2)

SDS #: 10995561

Section 1. Identification

Product identifier : Atellica™ IM Enhanced Estradiol (eE2)

Product code : 10995561, 10995562

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)

Section 2. Hazards identification

OSHA/HCS status	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1
Additional information	: Not available. Not available.	

GHS label elements

Hazard pictograms**Signal word**

: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Warning Warning Warning Warning
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Hazard statements

: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	H317 - May cause an allergic skin reaction. H317 - May cause an allergic skin reaction. H317 - May cause an allergic skin reaction. H317 - May cause an allergic skin reaction.
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Precautionary statements

Section 2. Hazards identification

Prevention	: eE2 Lite Reagent Buffer	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace.
	eE2 Solid Phase Buffer	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace.
	eE2 Ancillary Well Reagent	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace.
	eE2 Ancillary Reagent	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	: eE2 Lite Reagent Buffer	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	eE2 Solid Phase Buffer	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	eE2 Ancillary Well Reagent	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	eE2 Ancillary Reagent	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
Storage	: eE2 Lite Reagent Buffer	Not applicable.
	eE2 Solid Phase Buffer	Not applicable.
	eE2 Ancillary Well Reagent	Not applicable.
	eE2 Ancillary Reagent	Not applicable.
Disposal	: eE2 Lite Reagent Buffer	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	eE2 Solid Phase Buffer	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	eE2 Ancillary Well Reagent	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	eE2 Ancillary Reagent	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
Supplemental label elements	: eE2 Lite Reagent Buffer	None known.
	eE2 Solid Phase Buffer	None known.
	eE2 Ancillary Well Reagent	None known.
	eE2 Ancillary Reagent	None known.
Hazards not otherwise classified	: eE2 Lite Reagent Buffer	None known.
	eE2 Solid Phase Buffer	None known.
	eE2 Ancillary Well Reagent	None known.
	eE2 Ancillary Reagent	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: eE2 Lite Reagent Buffer	Mixture
	eE2 Solid Phase Buffer	Mixture
	eE2 Ancillary Well Reagent	Mixture
	eE2 Ancillary Reagent	Mixture

Ingredient name	%	CAS number
eE2 Lite Reagent Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	55965-84-9
eE2 Solid Phase Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	55965-84-9
eE2 Ancillary Well Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	55965-84-9
eE2 Ancillary Reagent 1-Butyl-3-methylimidazolium octyl sulfate	1.25	445473-58-5
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	55965-84-9

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	: eE2 Lite Reagent Buffer	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 irritation occurs.
	eE2 Solid Phase Buffer	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 irritation occurs.
	eE2 Ancillary Well Reagent	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 irritation occurs.
	eE2 Ancillary Reagent	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 irritation occurs.

Section 4. First aid measures

Inhalation

: eE2 Lite Reagent Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.

eE2 Solid Phase Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.

eE2 Ancillary Well Reagent

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.

eE2 Ancillary Reagent

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.

Section 4. First aid measures

Skin contact

: eE2 Lite Reagent Buffer

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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

eE2 Solid Phase Buffer

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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

eE2 Ancillary Well Reagent

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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

eE2 Ancillary Reagent

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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: eE2 Lite Reagent Buffer

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 adverse health effects persist or are severe. 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.

eE2 Solid Phase Buffer

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

Section 4. First aid measures

eE2 Ancillary Well Reagent

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 adverse health effects persist or are severe. 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.

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 adverse health effects persist or are severe. 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.

eE2 Ancillary Reagent

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Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	: eE2 Lite Reagent Buffer	No known significant effects or critical hazards.
	eE2 Solid Phase Buffer	No known significant effects or critical hazards.
	eE2 Ancillary Well Reagent	No known significant effects or critical hazards.
	eE2 Ancillary Reagent	No known significant effects or critical hazards.
Inhalation	: eE2 Lite Reagent Buffer	No known significant effects or critical hazards.
	eE2 Solid Phase Buffer	No known significant effects or critical hazards.
	eE2 Ancillary Well Reagent	No known significant effects or critical hazards.
	eE2 Ancillary Reagent	No known significant effects or critical hazards.
Skin contact	: eE2 Lite Reagent Buffer	May cause an allergic skin reaction.
	eE2 Solid Phase Buffer	May cause an allergic skin reaction.
	eE2 Ancillary Well Reagent	May cause an allergic skin reaction.
	eE2 Ancillary Reagent	May cause an allergic skin reaction.
Ingestion	: eE2 Lite Reagent Buffer	No known significant effects or critical hazards.
	eE2 Solid Phase Buffer	No known significant effects or critical hazards.
	eE2 Ancillary Well Reagent	No known significant effects or critical hazards.
	eE2 Ancillary Reagent	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: eE2 Lite Reagent Buffer	No specific data.
	eE2 Solid Phase Buffer	No specific data.
	eE2 Ancillary Well Reagent	No specific data.
	eE2 Ancillary Reagent	No specific data.
Inhalation	: eE2 Lite Reagent Buffer	No specific data.
	eE2 Solid Phase Buffer	No specific data.
	eE2 Ancillary Well Reagent	No specific data.
	eE2 Ancillary Reagent	No specific data.
Skin contact	: eE2 Lite Reagent Buffer	Adverse symptoms may include the following: irritation redness
	eE2 Solid Phase Buffer	Adverse symptoms may include the following: irritation redness
	eE2 Ancillary Well Reagent	Adverse symptoms may include the following: irritation redness
	eE2 Ancillary Reagent	Adverse symptoms may include the following: irritation redness
Ingestion	: eE2 Lite Reagent Buffer	No specific data.
	eE2 Solid Phase Buffer	No specific data.
	eE2 Ancillary Well Reagent	No specific data.
	eE2 Ancillary Reagent	No specific data.

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

Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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** : 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
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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : 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".

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.

Section 6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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

None.

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

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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. 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Physical state	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Liquid. Liquid. Liquid. Liquid.
Color	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Yellow. Brownish-red. Yellow. White.
Odor	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
pH	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	8 6.1 4.5 4.8
Flash point	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	[Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Relative density	: eE2 Lite Reagent Buffer eE2 Solid Phase Buffer eE2 Ancillary Well Reagent eE2 Ancillary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

Solubility in water	: eE2 Lite Reagent Buffer	Not relevant/applicable due to nature of the product.
	eE2 Solid Phase Buffer	Not relevant/applicable due to nature of the product.
	eE2 Ancillary Well Reagent	Not relevant/applicable due to nature of the product.
	eE2 Ancillary Reagent	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Auto-ignition temperature	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Viscosity	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
<u>Aerosol product</u>		
Type of aerosol	: eE2 Lite Reagent Buffer	Not applicable.
	eE2 Solid Phase Buffer	Not applicable.
	eE2 Ancillary Well Reagent	Not applicable.
	eE2 Ancillary Reagent	Not applicable.

Section 10. Stability and reactivity

Reactivity	: eE2 Lite Reagent Buffer	No specific test data related to reactivity available for this product or its ingredients.
	eE2 Solid Phase Buffer	No specific test data related to reactivity available for this product or its ingredients.
	eE2 Ancillary Well Reagent	No specific test data related to reactivity available for this product or its ingredients.
	eE2 Ancillary Reagent	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: eE2 Lite Reagent Buffer	The product is stable.
	eE2 Solid Phase Buffer	The product is stable.
	eE2 Ancillary Well Reagent	The product is stable.
	eE2 Ancillary Reagent	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
eE2 Lite Reagent Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
eE2 Solid Phase Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
eE2 Ancillary Well Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
eE2 Ancillary Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-

Conclusion/Summary

: eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
eE2 Lite Reagent Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
eE2 Solid Phase Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
eE2 Ancillary Well Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
eE2 Ancillary Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one	Skin - Severe irritant	Human	-	0.01 Percent	-

Section 11. Toxicological information

[EC no. 247-500-7] and
2-methyl-2H-isothiazol-3-one
[EC no. 220-239-6] (3:1)

Conclusion/Summary

Skin	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Eyes	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Respiratory	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.

Sensitization

Not available.

Conclusion/Summary

Skin	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Respiratory	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.

Mutagenicity

Not available.

Conclusion/Summary

: eE2 Lite Reagent Buffer	Not available.
eE2 Solid Phase Buffer	Not available.
eE2 Ancillary Well Reagent	Not available.
eE2 Ancillary Reagent	Not available.

Carcinogenicity

Not available.

Conclusion/Summary

: eE2 Lite Reagent Buffer	Not available.
eE2 Solid Phase Buffer	Not available.
eE2 Ancillary Well Reagent	Not available.
eE2 Ancillary Reagent	Not available.

Reproductive toxicity

Not available.

Conclusion/Summary

: eE2 Lite Reagent Buffer	Not available.
eE2 Solid Phase Buffer	Not available.
eE2 Ancillary Well Reagent	Not available.
eE2 Ancillary Reagent	Not available.

Teratogenicity

Not available.

Conclusion/Summary

: eE2 Lite Reagent Buffer	Not available.
eE2 Solid Phase Buffer	Not available.
eE2 Ancillary Well Reagent	Not available.
eE2 Ancillary Reagent	Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
eE2 Ancillary Reagent 1-Butyl-3-methylimidazolium octyl sulfate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: eE2 Lite Reagent Buffer Not available.
 eE2 Solid Phase Buffer Not available.
 eE2 Ancillary Well Reagent Not available.
 eE2 Ancillary Reagent Not available.

Potential acute health effects

Eye contact

: eE2 Lite Reagent Buffer No known significant effects or critical hazards.
 eE2 Solid Phase Buffer No known significant effects or critical hazards.
 eE2 Ancillary Well Reagent No known significant effects or critical hazards.
 eE2 Ancillary Reagent No known significant effects or critical hazards.

Inhalation

: eE2 Lite Reagent Buffer No known significant effects or critical hazards.
 eE2 Solid Phase Buffer No known significant effects or critical hazards.
 eE2 Ancillary Well Reagent No known significant effects or critical hazards.
 eE2 Ancillary Reagent No known significant effects or critical hazards.

Skin contact

: eE2 Lite Reagent Buffer May cause an allergic skin reaction.
 eE2 Solid Phase Buffer May cause an allergic skin reaction.
 eE2 Ancillary Well Reagent May cause an allergic skin reaction.
 eE2 Ancillary Reagent May cause an allergic skin reaction.

Ingestion

: eE2 Lite Reagent Buffer No known significant effects or critical hazards.
 eE2 Solid Phase Buffer No known significant effects or critical hazards.
 eE2 Ancillary Well Reagent No known significant effects or critical hazards.
 eE2 Ancillary Reagent No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: eE2 Lite Reagent Buffer No specific data.
 eE2 Solid Phase Buffer No specific data.
 eE2 Ancillary Well Reagent No specific data.
 eE2 Ancillary Reagent No specific data.

Inhalation

: eE2 Lite Reagent Buffer No specific data.
 eE2 Solid Phase Buffer No specific data.
 eE2 Ancillary Well Reagent No specific data.
 eE2 Ancillary Reagent No specific data.

Section 11. Toxicological information

Skin contact	: eE2 Lite Reagent Buffer	Adverse symptoms may include the following: irritation redness
	eE2 Solid Phase Buffer	Adverse symptoms may include the following: irritation redness
	eE2 Ancillary Well Reagent	Adverse symptoms may include the following: irritation redness
	eE2 Ancillary Reagent	Adverse symptoms may include the following: irritation redness
Ingestion	: eE2 Lite Reagent Buffer	No specific data.
	eE2 Solid Phase Buffer	No specific data.
	eE2 Ancillary Well Reagent	No specific data.
	eE2 Ancillary Reagent	No specific data.

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

Short term exposure

Potential immediate effects	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Potential delayed effects	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.

Long term exposure

Potential immediate effects	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.
Potential delayed effects	: eE2 Lite Reagent Buffer	Not available.
	eE2 Solid Phase Buffer	Not available.
	eE2 Ancillary Well Reagent	Not available.
	eE2 Ancillary Reagent	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.	eE2 Lite Reagent Buffer
	Not available.	eE2 Solid Phase Buffer
	Not available.	eE2 Ancillary Well Reagent
	Not available.	eE2 Ancillary Reagent
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
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

Section 11. Toxicological information

Route	ATE value
eE2 Ancillary Reagent Oral	22827.4 mg/kg

Interactive effects : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Other information : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Persistence and degradability

Conclusion/Summary : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

Mobility : eE2 Lite Reagent Buffer Not available.
eE2 Solid Phase Buffer Not available.
eE2 Ancillary Well Reagent Not available.
eE2 Ancillary Reagent Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification

UN number	eE2 Lite Reagent Buffer	Not regulated.
	eE2 Solid Phase Buffer	Not regulated.
	eE2 Ancillary Well Reagent	Not regulated.
	eE2 Ancillary Reagent	Not regulated.
UN proper shipping name	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Transport hazard class(es)	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Packing group	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Environmental hazards	eE2 Lite Reagent Buffer	No.
	eE2 Solid Phase Buffer	No.
	eE2 Ancillary Well Reagent	No.
	eE2 Ancillary Reagent	No.
Additional information	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

TDG Classification

UN number	eE2 Lite Reagent Buffer	Not regulated.
	eE2 Solid Phase Buffer	Not regulated.
	eE2 Ancillary Well Reagent	Not regulated.
	eE2 Ancillary Reagent	Not regulated.
UN proper shipping name	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Transport hazard class(es)	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Packing group	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Environmental hazards	eE2 Lite Reagent Buffer	No.
	eE2 Solid Phase Buffer	No.
	eE2 Ancillary Well Reagent	No.
	eE2 Ancillary Reagent	No.

Section 14. Transport information

Additional information	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

ADR/RID

UN number	eE2 Lite Reagent Buffer	Not regulated.
	eE2 Solid Phase Buffer	Not regulated.
	eE2 Ancillary Well Reagent	Not regulated.
	eE2 Ancillary Reagent	Not regulated.
UN proper shipping name	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Transport hazard class(es)	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Packing group	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Environmental hazards	eE2 Lite Reagent Buffer	No.
	eE2 Solid Phase Buffer	No.
	eE2 Ancillary Well Reagent	No.
	eE2 Ancillary Reagent	No.

Additional information	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

IMDG

UN number	eE2 Lite Reagent Buffer	Not regulated.
	eE2 Solid Phase Buffer	Not regulated.
	eE2 Ancillary Well Reagent	Not regulated.
	eE2 Ancillary Reagent	Not regulated.

UN proper shipping name	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Transport hazard class(es)	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Packing group	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Section 14. Transport information

Environmental hazards	eE2 Lite Reagent Buffer	No.
	eE2 Solid Phase Buffer	No.
	eE2 Ancillary Well Reagent	No.
	eE2 Ancillary Reagent	No.
Additional information	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
IATA		
UN number	eE2 Lite Reagent Buffer	Not regulated.
	eE2 Solid Phase Buffer	Not regulated.
	eE2 Ancillary Well Reagent	Not regulated.
	eE2 Ancillary Reagent	Not regulated.
UN proper shipping name	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Transport hazard class(es)	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Packing group	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-
Environmental hazards	eE2 Lite Reagent Buffer	No.
	eE2 Solid Phase Buffer	No.
	eE2 Ancillary Well Reagent	No.
	eE2 Ancillary Reagent	No.
Additional information	eE2 Lite Reagent Buffer	-
	eE2 Solid Phase Buffer	-
	eE2 Ancillary Well Reagent	-
	eE2 Ancillary Reagent	-

Special precautions for user : eE2 Lite Reagent Buffer

eE2 Solid Phase Buffer

eE2 Ancillary Well Reagent

eE2 Ancillary Reagent

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

Section 14. Transport information

the event of an accident or spillage.

Transport in bulk according
to Annex II of MARPOL and
the IBC Code

Proper shipping name :
Ship type :
Pollution category :

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: 1,1'-oxydipropyl-2-ol; Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 311: Phosphoric acid, disodium salt, heptahydrate

Clean Air Act Section 112 : Not listed
(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
eE2 Lite Reagent Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	No.	No.	No.	Yes.	No.
eE2 Solid Phase Buffer reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	No.	No.	No.	Yes.	No.
eE2 Ancillary Well Reagent reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	No.	No.	No.	Yes.	No.

Section 15. Regulatory information

no. 220-239-6] (3:1)						
eE2 Ancillary Reagent 1-Butyl-3-methylimidazolium octyl sulfate	1.25	No.	No.	No.	Yes.	No.
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0045	No.	No.	No.	Yes.	No.

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.

California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
eE2 Lite Reagent Buffer Neomycin sulfate	No.	Yes.	No.	No.
eE2 Solid Phase Buffer Neomycin sulfate	No.	Yes.	No.	No.
eE2 Ancillary Well Reagent Neomycin sulfate	No.	Yes.	No.	No.
eE2 Ancillary Reagent Neomycin sulfate	No.	Yes.	No.	No.

International regulations

Chemical Weapons Convention List Schedule I Chemicals : eE2 Lite Reagent Buffer Not listed
eE2 Solid Phase Buffer Not listed
eE2 Ancillary Well Reagent Not listed
eE2 Ancillary Reagent Not listed

Chemical Weapons Convention List Schedule II Chemicals : eE2 Lite Reagent Buffer Not listed
eE2 Solid Phase Buffer Not listed
eE2 Ancillary Well Reagent Not listed
eE2 Ancillary Reagent Not listed

Chemical Weapons Convention List Schedule III Chemicals : eE2 Lite Reagent Buffer Not listed
eE2 Solid Phase Buffer Not listed
eE2 Ancillary Well Reagent Not listed
eE2 Ancillary Reagent Not listed

Section 16. Other information

History

Date of issue/Date of revision : 5/18/2017

Version : 1.01

Section 16. Other information

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 = 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.