

# SAFETY DATA SHEET

**SIEMENS**

ADVIA® Centaur Enhanced Estradiol

**MSDS  
no.**

10491455

## Section 1. Identification

|                                      |                                     |          |
|--------------------------------------|-------------------------------------|----------|
| <b>GHS product identifier</b>        | : ADVIA® Centaur Enhanced Estradiol |          |
| <b>Product code</b>                  | : 10491445, 10490889, 10697757      |          |
| <b>Other means of identification</b> | : eE2 Solid Phase Buffer            | 10378449 |
|                                      | : eE2 Ancillary Well Reagent        | 10378452 |
|                                      | : eE2 Lite Reagent Buffer           | 10378450 |
|                                      | : eE2 Ancillary Reagent             | 10378451 |
| <b>Product type</b>                  | : Liquid.                           |          |

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

Not applicable.

|                              |                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufactured/supplied</b> | : Siemens Healthcare Diagnostics Inc.<br>511 Benedict Avenue<br>Tarrytown, NY 10591-5097 USA<br>1-877-229-3711<br>(800) 424-9300 (CHEMTREC) (24/365) |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 2. Hazards identification

|                                                   |                              |                                                                                                     |
|---------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>OSHA/HCS status</b>                            | : eE2 Solid Phase Buffer     | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|                                                   | : eE2 Ancillary Well Reagent | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|                                                   | : eE2 Lite Reagent Buffer    | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|                                                   | : eE2 Ancillary Reagent      | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| <b>Classification of the substance or mixture</b> | : eE2 Solid Phase Buffer     | SKIN SENSITIZATION - Category 1                                                                     |
|                                                   | : eE2 Ancillary Well Reagent | SKIN SENSITIZATION - Category 1                                                                     |
|                                                   | : eE2 Lite Reagent Buffer    | SKIN SENSITIZATION - Category 1                                                                     |
|                                                   | : eE2 Ancillary Reagent      | SKIN SENSITIZATION - Category 1                                                                     |

### GHS label elements

#### **Hazard pictograms**



|                          |                              |                                             |
|--------------------------|------------------------------|---------------------------------------------|
| <b>Signal word</b>       | : eE2 Solid Phase Buffer     | Warning                                     |
|                          | : eE2 Ancillary Well Reagent | Warning                                     |
|                          | : eE2 Lite Reagent Buffer    | Warning                                     |
|                          | : eE2 Ancillary Reagent      | Warning                                     |
| <b>Hazard statements</b> | : eE2 Solid Phase Buffer     | H317 - May cause an allergic skin reaction. |
|                          | : eE2 Ancillary Well Reagent | H317 - May cause an allergic skin reaction. |
|                          | : eE2 Lite Reagent Buffer    | H317 - May cause an allergic skin reaction. |
|                          | : eE2 Ancillary Reagent      | H317 - May cause an allergic skin reaction. |

### Precautionary statements

## Section 2. Hazards identification

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

## Section 3. Composition/information on ingredients

|                          |                            |         |
|--------------------------|----------------------------|---------|
| <b>Substance/mixture</b> | : eE2 Solid Phase Buffer   | Mixture |
|                          | eE2 Ancillary Well Reagent | Mixture |
|                          | eE2 Lite Reagent Buffer    | Mixture |
|                          | eE2 Ancillary Reagent      | Mixture |

| Ingredient name                                                                                                                                                                                                                          | %              | CAS number              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|
| <b>eE2 Solid Phase Buffer</b><br>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              |
| <b>eE2 Ancillary Well Reagent</b><br>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)<br>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) | 3.12<br>0.0045 | 5949-29-1<br>55965-84-9 |
| <b>eE2 Lite Reagent Buffer</b><br>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              |
| <b>eE2 Ancillary Reagent</b><br>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)<br>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)      | 1.26<br>0.0045 | 5949-29-1<br>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

|                    |                            |                                                                                                                                                                                                                                |
|--------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b> | : 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 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 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 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 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 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.

### Skin contact

: 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

## Section 4. First aid measures

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 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 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 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 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 Well Reagent

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

## Section 4. First aid measures

### eE2 Lite Reagent Buffer

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

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.

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

#### Potential acute health effects

#### Eye contact

: eE2 Solid Phase Buffer

No known significant effects or critical hazards.

eE2 Ancillary Well Reagent

No known significant effects or critical hazards.

eE2 Lite Reagent Buffer

No known significant effects or critical hazards.

eE2 Ancillary Reagent

No known significant effects or critical hazards.

## Section 4. First aid measures

|                     |                            |                                                   |
|---------------------|----------------------------|---------------------------------------------------|
| <b>Inhalation</b>   | : eE2 Solid Phase Buffer   | No known significant effects or critical hazards. |
|                     | eE2 Ancillary Well Reagent | No known significant effects or critical hazards. |
|                     | eE2 Lite Reagent Buffer    | No known significant effects or critical hazards. |
|                     | eE2 Ancillary Reagent      | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : eE2 Solid Phase Buffer   | May cause an allergic skin reaction.              |
|                     | eE2 Ancillary Well Reagent | May cause an allergic skin reaction.              |
|                     | eE2 Lite Reagent Buffer    | May cause an allergic skin reaction.              |
|                     | eE2 Ancillary Reagent      | May cause an allergic skin reaction.              |
| <b>Ingestion</b>    | : eE2 Solid Phase Buffer   | No known significant effects or critical hazards. |
|                     | eE2 Ancillary Well Reagent | No known significant effects or critical hazards. |
|                     | eE2 Lite Reagent Buffer    | No known significant effects or critical hazards. |
|                     | eE2 Ancillary Reagent      | No known significant effects or critical hazards. |

### Over-exposure signs/symptoms

|                     |                            |                                                                      |
|---------------------|----------------------------|----------------------------------------------------------------------|
| <b>Eye contact</b>  | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | No specific data.                                                    |
|                     | eE2 Ancillary Reagent      | No specific data.                                                    |
| <b>Inhalation</b>   | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | No specific data.                                                    |
|                     | eE2 Ancillary Reagent      | No specific data.                                                    |
| <b>Skin contact</b> | : eE2 Solid Phase Buffer   | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Ancillary Well Reagent | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Lite Reagent Buffer    | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Ancillary Reagent      | Adverse symptoms may include the following:<br>irritation<br>redness |
| <b>Ingestion</b>    | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | No specific data.                                                    |
|                     | eE2 Ancillary Reagent      | No specific data.                                                    |

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

|                                   |                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>         | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.                                                                                                                                     |
| <b>Specific treatments</b>        | : No specific treatment.                                                                                                                                                                                                                                        |
| <b>Protection of first-aiders</b> | : 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 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. 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**
- 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.

## Section 8. Exposure controls/personal protection

- 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

|                                               |                                                                                                            |                                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                         | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Liquid.<br>Liquid.<br>Liquid.<br>Liquid.                                                                                                                             |
| <b>Color</b>                                  | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Brownish-red.<br>Yellow.<br>Yellow.<br>White.                                                                                                                        |
| <b>Odor</b>                                   | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>pH</b>                                     | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | 6.1<br>4.5<br>8<br>4.8                                                                                                                                               |
| <b>Flash point</b>                            | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | [Product does not sustain combustion.]<br>[Product does not sustain combustion.]<br>[Product does not sustain combustion.]<br>[Product does not sustain combustion.] |
| <b>Flammability (solid, gas)</b>              | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>Relative density</b>                       | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>Solubility in water</b>                    | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>Partition coefficient: n-octanol/water</b> | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>Auto-ignition temperature</b>              | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |
| <b>Viscosity</b>                              | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available.                                                                                                 |

## Section 10. Stability and reactivity

|                   |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b> | : eE2 Solid Phase Buffer<br><br>eE2 Ancillary Well Reagent<br><br>eE2 Lite Reagent Buffer<br><br>eE2 Ancillary Reagent | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients. |
|-------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 10. Stability and reactivity

|                                           |                                                                                                            |                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Chemical stability</b>                 | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | The product is stable.<br>The product is stable.<br>The product is stable.<br>The product is stable. |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                          |                                                                                                      |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                        |                                                                                                      |
| <b>Incompatible materials</b>             | : No specific data.                                                                                        |                                                                                                      |
| <b>Hazardous decomposition products</b>   | : 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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|----------|----------|
| <b>eE2 Solid Phase Buffer</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)     | LD50 Oral | Rat     | 53 mg/kg | -        |
| <b>eE2 Ancillary Well Reagent</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1) | LD50 Oral | Rat     | 53 mg/kg | -        |
| <b>eE2 Lite Reagent Buffer</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)    | LD50 Oral | Rat     | 53 mg/kg | -        |
| <b>eE2 Ancillary Reagent</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)      | LD50 Oral | Rat     | 53 mg/kg | -        |

|                           |                                                                                                            |                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Conclusion/Summary</b> | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available. |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

#### Irritation/Corrosion

## Section 11. Toxicological information

| Product/ingredient name                                                                                                                                                                                                                                 | Result                 | Species | Score | Exposure                    | Observation |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|-------|-----------------------------|-------------|
| <b>eE2 Solid Phase Buffer</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)                                                                      | Skin - Severe irritant | Human   | -     | 0.01 Percent                | -           |
| <b>eE2 Ancillary Well Reagent</b><br>1,2,3-Propanetricarboxylic<br>acid, 2-hydroxy-, hydrate (1:1)<br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1) | Eyes - Mild irritant   | Rabbit  | -     | 0.5 minutes 5<br>milligrams | -           |
|                                                                                                                                                                                                                                                         | Skin - Severe irritant | Human   | -     | 0.01 Percent                | -           |
| <b>eE2 Lite Reagent Buffer</b><br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)                                                                     | Skin - Severe irritant | Human   | -     | 0.01 Percent                | -           |
| <b>eE2 Ancillary Reagent</b><br>1,2,3-Propanetricarboxylic<br>acid, 2-hydroxy-, hydrate (1:1)<br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and<br>2-methyl-2H-isothiazol-3-one<br>[EC no. 220-239-6] (3:1)      | Eyes - Mild irritant   | Rabbit  | -     | 0.5 minutes 5<br>milligrams | -           |
|                                                                                                                                                                                                                                                         | Skin - Severe irritant | Human   | -     | 0.01 Percent                | -           |

### Conclusion/Summary

#### Skin

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

#### Eyes

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

#### Respiratory

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

### Sensitization

Not available.

### Conclusion/Summary

#### Skin

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

#### Respiratory

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

### Mutagenicity

Not available.

## Section 11. Toxicological information

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

### Carcinogenicity

Not available.

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

### Reproductive toxicity

Not available.

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

### Teratogenicity

Not available.

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

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

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

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

## Section 11. Toxicological information

|                  |                            |                                                   |
|------------------|----------------------------|---------------------------------------------------|
| <b>Ingestion</b> | : eE2 Solid Phase Buffer   | No known significant effects or critical hazards. |
|                  | eE2 Ancillary Well Reagent | No known significant effects or critical hazards. |
|                  | eE2 Lite Reagent Buffer    | 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

|                     |                            |                                                                      |
|---------------------|----------------------------|----------------------------------------------------------------------|
| <b>Eye contact</b>  | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | No specific data.                                                    |
|                     | eE2 Ancillary Reagent      | No specific data.                                                    |
| <b>Inhalation</b>   | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | No specific data.                                                    |
|                     | eE2 Ancillary Reagent      | No specific data.                                                    |
| <b>Skin contact</b> | : eE2 Solid Phase Buffer   | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Ancillary Well Reagent | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Lite Reagent Buffer    | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | eE2 Ancillary Reagent      | Adverse symptoms may include the following:<br>irritation<br>redness |
| <b>Ingestion</b>    | : eE2 Solid Phase Buffer   | No specific data.                                                    |
|                     | eE2 Ancillary Well Reagent | No specific data.                                                    |
|                     | eE2 Lite Reagent Buffer    | 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

|                                    |                            |                |
|------------------------------------|----------------------------|----------------|
| <b>Potential immediate effects</b> | : eE2 Solid Phase Buffer   | Not available. |
|                                    | eE2 Ancillary Well Reagent | Not available. |
|                                    | eE2 Lite Reagent Buffer    | Not available. |
|                                    | eE2 Ancillary Reagent      | Not available. |
| <b>Potential delayed effects</b>   | : eE2 Solid Phase Buffer   | Not available. |
|                                    | eE2 Ancillary Well Reagent | Not available. |
|                                    | eE2 Lite Reagent Buffer    | Not available. |
|                                    | eE2 Ancillary Reagent      | Not available. |

#### Long term exposure

|                                    |                            |                |
|------------------------------------|----------------------------|----------------|
| <b>Potential immediate effects</b> | : eE2 Solid Phase Buffer   | Not available. |
|                                    | eE2 Ancillary Well Reagent | Not available. |
|                                    | eE2 Lite Reagent Buffer    | Not available. |
|                                    | eE2 Ancillary Reagent      | Not available. |
| <b>Potential delayed effects</b>   | : eE2 Solid Phase Buffer   | Not available. |
|                                    | eE2 Ancillary Well Reagent | Not available. |
|                                    | eE2 Lite Reagent Buffer    | Not available. |
|                                    | eE2 Ancillary Reagent      | Not available. |

#### Potential chronic health effects

Not available.

## Section 11. Toxicological information

|                              |                                                                                                       |                                                                                                          |
|------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Conclusion/Summary</b>    | : Not available.<br>Not available.<br>Not available.<br>Not available.                                | eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent |
| <b>General</b>               | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |                                                                                                          |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.                                                   |                                                                                                          |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                                   |                                                                                                          |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards.                                                   |                                                                                                          |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.                                                   |                                                                                                          |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards.                                                   |                                                                                                          |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                         | ATE value     |
|-------------------------------|---------------|
| eE2 Ancillary Reagent<br>Oral | 22813.7 mg/kg |

|                            |                                                                                                            |                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Interactive effects</b> | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available. |
| <b>Other information</b>   | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available. |

## Section 12. Ecological information

### Toxicity

Not available.

|                           |                                                                                                            |                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Conclusion/Summary</b> | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available. |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

### Persistence and degradability

|                           |                                                                                                            |                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Conclusion/Summary</b> | : eE2 Solid Phase Buffer<br>eE2 Ancillary Well Reagent<br>eE2 Lite Reagent Buffer<br>eE2 Ancillary Reagent | Not available.<br>Not available.<br>Not available.<br>Not available. |
|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

### Bioaccumulative potential

| Product/ingredient name                                                                  | LogP <sub>ow</sub> | BCF | Potential |
|------------------------------------------------------------------------------------------|--------------------|-----|-----------|
| eE2 Ancillary Well Reagent<br>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1) | -1.72              | -   | low       |
| eE2 Ancillary Reagent<br>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)      | -1.72              | -   | low       |

### Mobility in soil

## Section 12. Ecological information

|                                                          |                            |                |
|----------------------------------------------------------|----------------------------|----------------|
| <b>Soil/water partition coefficient (K<sub>oc</sub>)</b> | : eE2 Solid Phase Buffer   | Not available. |
|                                                          | eE2 Ancillary Well Reagent | Not available. |
|                                                          | eE2 Lite Reagent Buffer    | Not available. |
|                                                          | eE2 Ancillary Reagent      | Not available. |
| <b>Mobility</b>                                          | : eE2 Solid Phase Buffer   | Not available. |
|                                                          | eE2 Ancillary Well Reagent | Not available. |
|                                                          | eE2 Lite Reagent Buffer    | 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

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

|                      |                            |   |
|----------------------|----------------------------|---|
| <b>Packing group</b> | eE2 Solid Phase Buffer     | - |
|                      | eE2 Ancillary Well Reagent | - |
|                      | eE2 Lite Reagent Buffer    | - |
|                      | eE2 Ancillary Reagent      | - |

|                              |                            |     |
|------------------------------|----------------------------|-----|
| <b>Environmental hazards</b> | eE2 Solid Phase Buffer     | No. |
|                              | eE2 Ancillary Well Reagent | No. |
|                              | eE2 Lite Reagent Buffer    | No. |
|                              | eE2 Ancillary Reagent      | No. |

|                               |                            |   |
|-------------------------------|----------------------------|---|
| <b>Additional information</b> | eE2 Solid Phase Buffer     | - |
|                               | eE2 Ancillary Well Reagent | - |
|                               | eE2 Lite Reagent Buffer    | - |
|                               | eE2 Ancillary Reagent      | - |

### TDG Classification

## Section 14. Transport information

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

### Mexico Classification

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

## Section 14. Transport information

### ADR/RID

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

### IMDG

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

## Section 14. Transport information

|                               |                            |   |
|-------------------------------|----------------------------|---|
| <b>Additional information</b> | eE2 Solid Phase Buffer     | - |
|                               | eE2 Ancillary Well Reagent | - |
|                               | eE2 Lite Reagent Buffer    | - |
|                               | eE2 Ancillary Reagent      | - |

### IATA

|                  |                            |                |
|------------------|----------------------------|----------------|
| <b>UN number</b> | eE2 Solid Phase Buffer     | Not regulated. |
|                  | eE2 Ancillary Well Reagent | Not regulated. |
|                  | eE2 Lite Reagent Buffer    | Not regulated. |
|                  | eE2 Ancillary Reagent      | Not regulated. |

|                                |                            |   |
|--------------------------------|----------------------------|---|
| <b>UN proper shipping name</b> | eE2 Solid Phase Buffer     | - |
|                                | eE2 Ancillary Well Reagent | - |
|                                | eE2 Lite Reagent Buffer    | - |
|                                | eE2 Ancillary Reagent      | - |

|                                   |                            |   |
|-----------------------------------|----------------------------|---|
| <b>Transport hazard class(es)</b> | eE2 Solid Phase Buffer     | - |
|                                   | eE2 Ancillary Well Reagent | - |
|                                   | eE2 Lite Reagent Buffer    | - |
|                                   | eE2 Ancillary Reagent      | - |

|                      |                            |   |
|----------------------|----------------------------|---|
| <b>Packing group</b> | eE2 Solid Phase Buffer     | - |
|                      | eE2 Ancillary Well Reagent | - |
|                      | eE2 Lite Reagent Buffer    | - |
|                      | eE2 Ancillary Reagent      | - |

|                              |                            |     |
|------------------------------|----------------------------|-----|
| <b>Environmental hazards</b> | eE2 Solid Phase Buffer     | No. |
|                              | eE2 Ancillary Well Reagent | No. |
|                              | eE2 Lite Reagent Buffer    | No. |
|                              | eE2 Ancillary Reagent      | No. |

|                               |                            |   |
|-------------------------------|----------------------------|---|
| <b>Additional information</b> | eE2 Solid Phase Buffer     | - |
|                               | eE2 Ancillary Well Reagent | - |
|                               | eE2 Lite Reagent Buffer    | - |
|                               | eE2 Ancillary Reagent      | - |

**Special precautions for user :** eE2 Solid Phase Buffer

eE2 Ancillary Well Reagent

eE2 Lite Reagent Buffer

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.

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## Section 14. Transport information

**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** : **TSCA 8(a) PAIR**: 1,1'-oxydipropyl-2-ol; Poly(oxy-1,2-ethanediyl),  $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -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 (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

#### 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 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------------------------|------------|---------------------------------|---------------------------------|
| <b>eE2 Solid Phase Buffer</b><br>reaction mass of:<br>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.                             |
| <b>eE2 Ancillary Well Reagent</b><br>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)<br>reaction mass of:<br>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) | 3.12<br>0.0045 | No.<br>No.  | No.<br>No.                 | No.<br>No. | Yes.<br>Yes.                    | No.<br>No.                      |
| <b>eE2 Lite Reagent Buffer</b><br>reaction mass of:<br>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

|                                                                                                                                                                                                                                                      |                    |                |                |                |                  |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------|----------------|------------------|----------------|
| <b>eE2 Ancillary Reagent</b><br>1,2,3-Propanetricarboxylic acid,<br>2-hydroxy-, hydrate (1:1)<br>reaction mass of:<br>5-chloro-2-methyl-4-isothiazolin-3-one<br>[EC no. 247-500-7] and 2-methyl-2H-<br>isothiazol-3-one [EC no. 220-239-6] (3:<br>1) | 1.26<br><br>0.0045 | No.<br><br>No. | No.<br><br>No. | No.<br><br>No. | Yes.<br><br>Yes. | No.<br><br>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.

| <b>Ingredient name</b>                                | <b>Cancer</b> | <b>Reproductive</b> | <b>No significant risk level</b> | <b>Maximum acceptable dosage level</b> |
|-------------------------------------------------------|---------------|---------------------|----------------------------------|----------------------------------------|
| <b>eE2 Solid Phase Buffer</b><br>Neomycin sulfate     | No.           | Yes.                | No.                              | No.                                    |
| <b>eE2 Ancillary Well Reagent</b><br>Neomycin sulfate | No.           | Yes.                | No.                              | No.                                    |
| <b>eE2 Lite Reagent Buffer</b><br>Neomycin sulfate    | No.           | Yes.                | No.                              | No.                                    |
| <b>eE2 Ancillary Reagent</b><br>Neomycin sulfate      | No.           | Yes.                | No.                              | No.                                    |

### International regulations

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

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

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

## Section 16. Other information

### History

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

**Version** : 1.04

## 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 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.