

# SAFETY DATA SHEET



SureSelect XT2 Pre-Capture Box 1 - 60 Reactions, Part Number 5190-4077

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : SureSelect XT2 Pre-Capture Box 1 - 60 Reactions, Part Number 5190-4077  
**Part no. (chemical kit)** : 5190-4077  
**Part no.** : SureSelect XT2 Binding Buffer 5190-4091  
SureSelect XT2 Wash 1 5190-4092  
SureSelect XT2 Wash 2 5190-4093

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

**Material uses** : Analytical reagent.  
SureSelect XT2 Binding Buffer 48 ml  
SureSelect XT2 Wash 1 12 ml  
SureSelect XT2 Wash 2 72 ml

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

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : SureSelect XT2 Binding Buffer Mixture  
SureSelect XT2 Wash 1 Mixture  
SureSelect XT2 Wash 2 Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

**Ingredients of unknown toxicity** : SureSelect XT2 Binding Buffer Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : SureSelect XT2 Binding Buffer No signal word.  
SureSelect XT2 Wash 1 No signal word.  
SureSelect XT2 Wash 2 No signal word.

## SECTION 2: Hazards identification

|   |   |   |
|---|---|---|
| <b>Hazard statements</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.   |
| <b><u>Precautionary statements</u></b>  |   |   |
| <b>Prevention</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Response</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Storage</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Disposal</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Hazardous ingredients</b>  | : SureSelect XT2 Binding Buffer   | Not applicable.   |
| <b>Supplemental label elements</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Safety data sheet available on request.<br>Not applicable.<br>Not applicable.   |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b><u>Special packaging requirements</u></b>  |   |   |
| <b>Tactile warning of danger</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>2.3 Other hazards</b>  |   |   |
| <b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>                                  | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| <b>Other hazards which do not result in classification</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | None known.<br>None known.<br>None known.   |

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## SECTION 3: Composition/information on ingredients

**3.1 Substances** : SureSelect XT2 Binding Buffer Mixture  
 SureSelect XT2 Wash 1 Mixture  
 SureSelect XT2 Wash 2 Mixture

| Product/ingredient name                          | Identifiers                     | %   | Regulation (EC) No. 1272/2008 [CLP]   | Type |
|--|---------------------------------|-----|---|------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | EC: 231-598-3<br>CAS: 7647-14-5 | <10 | Eye Irrit. 2, H319<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]  |

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.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.<br>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.<br>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.<br>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.<br>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.   |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.<br>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.<br>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1                              | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.<br>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If   |

## SECTION 4: First aid measures

|                                   |                                 |   |
|-----------------------------------|---------------------------------|---|
|                                   |                                 | material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  |
|                                   | SureSelect XT2 Wash 2           | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| <b>Protection of first-aiders</b> | : SureSelect XT2 Binding Buffer | No action shall be taken involving any personal risk or without suitable training.  |
|                                   | : SureSelect XT2 Wash 1         | No action shall be taken involving any personal risk or without suitable training.  |
|                                   | : SureSelect XT2 Wash 2         | No action shall be taken involving any personal risk or without suitable training.  |

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

#### Potential acute health effects

|                     |                                 |   |
|---------------------|---------------------------------|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 1         | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 2         | No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 1         | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 2         | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 1         | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 2         | No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 1         | No known significant effects or critical hazards. |
|                     | : SureSelect XT2 Wash 2         | No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

|                     |                                 |                   |
|---------------------|---------------------------------|-------------------|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | : SureSelect XT2 Wash 1         | No specific data. |
|                     | : SureSelect XT2 Wash 2         | No specific data. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | : SureSelect XT2 Wash 1         | No specific data. |
|                     | : SureSelect XT2 Wash 2         | No specific data. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | : SureSelect XT2 Wash 1         | No specific data. |
|                     | : SureSelect XT2 Wash 2         | No specific data. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | : SureSelect XT2 Wash 1         | No specific data. |
|                     | : SureSelect XT2 Wash 2         | No specific data. |

### 4.3 Indication of any immediate medical attention and special treatment needed

## SECTION 4: First aid measures

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| <b>Notes to physician</b>  | : SureSelect XT2 Binding Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                            | SureSelect XT2 Wash 1           | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                            | SureSelect XT2 Wash 2           | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : SureSelect XT2 Binding Buffer | No specific treatment.  |
|                            | SureSelect XT2 Wash 1           | No specific treatment.  |
|                            | SureSelect XT2 Wash 2           | No specific treatment.  |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                 |   |
|---------------------------------------|---------------------------------|---|
| <b>Suitable extinguishing media</b>   | : SureSelect XT2 Binding Buffer | Use an extinguishing agent suitable for the surrounding fire. |
|                                       | SureSelect XT2 Wash 1           | Use an extinguishing agent suitable for the surrounding fire. |
|                                       | SureSelect XT2 Wash 2           | Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : SureSelect XT2 Binding Buffer | None known.   |
|                                       | SureSelect XT2 Wash 1           | None known.   |
|                                       | SureSelect XT2 Wash 2           | None known.   |

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

|  |                                 |  |
|--|---------------------------------|--|
| <b>Hazards from the substance or mixture</b> | : SureSelect XT2 Binding Buffer | In a fire or if heated, a pressure increase will occur and the container may burst.                        |
|  | SureSelect XT2 Wash 1           | In a fire or if heated, a pressure increase will occur and the container may burst.                        |
|  | SureSelect XT2 Wash 2           | In a fire or if heated, a pressure increase will occur and the container may burst.                        |
| <b>Hazardous combustion products</b>         | : SureSelect XT2 Binding Buffer | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides |
|  | SureSelect XT2 Wash 1           | No specific data.  |
|  | SureSelect XT2 Wash 2           | No specific data.  |

### 5.3 Advice for firefighters

|   |                                 |   |
|---|---------------------------------|---|
| <b>Special precautions for fire-fighters</b>          | : SureSelect XT2 Binding Buffer | 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.   |
|   | SureSelect XT2 Wash 1           | 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.   |
|   | SureSelect XT2 Wash 2           | 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.   |
| <b>Special protective equipment for fire-fighters</b> | : SureSelect XT2 Binding Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|   | SureSelect XT2 Wash 1           | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|   | SureSelect XT2 Wash 2           | Fire-fighters should wear appropriate protective equipment  |

## SECTION 5: Firefighting measures

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

|                                    |                                 |   |
|------------------------------------|---------------------------------|---|
| <b>For non-emergency personnel</b> | : SureSelect XT2 Binding Buffer | 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 spilt material. Put on appropriate personal protective equipment. |
|                                    | SureSelect XT2 Wash 1           | 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 spilt material. Put on appropriate personal protective equipment. |
|                                    | SureSelect XT2 Wash 2           | 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 spilt material. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : SureSelect XT2 Binding Buffer | 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".   |
|                                    | SureSelect XT2 Wash 1           | 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".   |
|                                    | SureSelect XT2 Wash 2           | 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".   |

### 6.2 Environmental precautions

|                                 |   |
|---------------------------------|---|
| : SureSelect XT2 Binding Buffer | Avoid dispersal of spilt 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). |
| SureSelect XT2 Wash 1           | Avoid dispersal of spilt 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). |
| SureSelect XT2 Wash 2           | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

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

|                                |                                 |   |
|--------------------------------|---------------------------------|---|
| <b>Methods for cleaning up</b> | : SureSelect XT2 Binding Buffer | 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. |
|                                | SureSelect XT2 Wash 1           | 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. |

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## SECTION 6: Accidental release measures

SureSelect XT2 Wash 2 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.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|   |                                 |   |
|---|---------------------------------|---|
| <b>Protective measures</b>                    | : SureSelect XT2 Binding Buffer | Put on appropriate personal protective equipment (see Section 8).   |
|   | SureSelect XT2 Wash 1           | Put on appropriate personal protective equipment (see Section 8).   |
|   | SureSelect XT2 Wash 2           | Put on appropriate personal protective equipment (see Section 8).   |
| <b>Advice on general occupational hygiene</b> | : SureSelect XT2 Binding Buffer | 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. |
|   | SureSelect XT2 Wash 1           | 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. |
|   | SureSelect XT2 Wash 2           | 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. |

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

|                |                                 |   |
|----------------|---------------------------------|---|
| <b>Storage</b> | : SureSelect XT2 Binding Buffer | 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|                | SureSelect XT2 Wash 1           | 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|                | SureSelect XT2 Wash 2           | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and   |

## SECTION 7: Handling and storage

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

### 7.3 Specific end use(s)

|   |                                 |   |
|---|---------------------------------|---|
| <b>Recommendations</b>                      | : SureSelect XT2 Binding Buffer | Industrial applications, Professional applications. |
|   | SureSelect XT2 Wash 1           | Industrial applications, Professional applications. |
|   | SureSelect XT2 Wash 2           | Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : SureSelect XT2 Binding Buffer | Not applicable.                                     |
|   | SureSelect XT2 Wash 1           | Not applicable.                                     |
|   | SureSelect XT2 Wash 2           | Not applicable.                                     |
|   |                                 |   |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

| Product/ingredient name                          | Type | Exposure              | Value                     | Population         | Effects  |
|--|------|-----------------------|---------------------------|--------------------|----------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | DNEL | Short term Oral       | 126.65 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Oral        | 126.65 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Short term Dermal     | 126.65 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Dermal      | 126.65 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Short term Dermal     | 295.52 mg/kg bw/day       | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 295.52 mg/kg bw/day       | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 443.28 mg/m <sup>3</sup>  | General population | Systemic |
|  | DNEL | Long term Inhalation  | 443.28 mg/m <sup>3</sup>  | General population | Systemic |
|  | DNEL | Short term Inhalation | 2068.62 mg/m <sup>3</sup> | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 2068.62 mg/m <sup>3</sup> | Workers            | Systemic |

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## SECTION 8: Exposure controls/personal protection

|  |            |                   |  |  |
|--|------------|-------------------|--|--|
|  | Inhalation | mg/m <sup>3</sup> |  |  |
|--|------------|-------------------|--|--|

### PNECs

No PNECs available

### 8.2 Exposure controls

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

### Individual protection measures

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

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

### Skin protection

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

**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.

**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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                        |                       |                |
|------------------------|-----------------------|----------------|
| <b>Physical state</b>  | : SureSelect XT2      | Liquid.        |
|                        | Binding Buffer        |                |
|                        | SureSelect XT2 Wash 1 | Liquid.        |
| <b>Colour</b>          | SureSelect XT2 Wash 2 | Liquid.        |
|                        | : SureSelect XT2      | Not available. |
|                        | Binding Buffer        |                |
| <b>Odour</b>           | SureSelect XT2 Wash 1 | Not available. |
|                        | SureSelect XT2 Wash 2 | Not available. |
|                        | : SureSelect XT2      | Not available. |
| <b>Odour threshold</b> | Binding Buffer        |                |
|                        | SureSelect XT2 Wash 1 | Not available. |
|                        | SureSelect XT2 Wash 2 | Not available. |

## SECTION 9: Physical and chemical properties

|   |                       |  |
|---|-----------------------|--|
| <b>pH</b>   | : SureSelect XT2      | 7.5  |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | 7  |
|   | SureSelect XT2 Wash 2 | 7  |
| <b>Melting point/freezing point</b>                 | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | 0°C  |
|   | SureSelect XT2 Wash 2 | 0°C  |
| <b>Initial boiling point and boiling range</b>      | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | 100°C  |
|   | SureSelect XT2 Wash 2 | 100°C  |
| <b>Flash point</b>                                  | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Evaporation rate</b>                             | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Flammability (solid, gas)</b>                    | : SureSelect XT2      | Not applicable.  |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not applicable.  |
|   | SureSelect XT2 Wash 2 | Not applicable.  |
| <b>Upper/lower flammability or explosive limits</b> | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Vapour pressure</b>                              | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Vapour density</b>                               | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Relative density</b>                             | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Solubility(ies)</b>                              | : SureSelect XT2      | Easily soluble in the following materials: cold water and hot water. |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Easily soluble in the following materials: cold water and hot water. |
|   | SureSelect XT2 Wash 2 | Easily soluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b>       | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |
| <b>Auto-ignition temperature</b>                    | : SureSelect XT2      | Not available.   |
|   | Binding Buffer        |  |
|   | SureSelect XT2 Wash 1 | Not available.   |
|   | SureSelect XT2 Wash 2 | Not available.   |

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**SECTION 9: Physical and chemical properties**

|                                  |                                 |                |
|----------------------------------|---------------------------------|----------------|
| <b>Decomposition temperature</b> | : SureSelect XT2 Binding Buffer | Not available. |
|                                  | SureSelect XT2 Wash 1           | Not available. |
|                                  | SureSelect XT2 Wash 2           | Not available. |
| <b>Viscosity</b>                 | : SureSelect XT2 Binding Buffer | Not available. |
|                                  | SureSelect XT2 Wash 1           | Not available. |
|                                  | SureSelect XT2 Wash 2           | Not available. |
| <b>Explosive properties</b>      | : SureSelect XT2 Binding Buffer | Not available. |
|                                  | SureSelect XT2 Wash 1           | Not available. |
|                                  | SureSelect XT2 Wash 2           | Not available. |
| <b>Oxidising properties</b>      | : SureSelect XT2 Binding Buffer | Not available. |
|                                  | SureSelect XT2 Wash 1           | Not available. |
|                                  | SureSelect XT2 Wash 2           | Not available. |

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

|  |                                 |  |
|--|---------------------------------|--|
| <b>10.1 Reactivity</b>                         | : SureSelect XT2 Binding Buffer | No specific test data related to reactivity available for this product or its ingredients.           |
|  | SureSelect XT2 Wash 1           | No specific test data related to reactivity available for this product or its ingredients.           |
|  | SureSelect XT2 Wash 2           | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical stability</b>                 | : SureSelect XT2 Binding Buffer | The product is stable.   |
|  | SureSelect XT2 Wash 1           | The product is stable.   |
|  | SureSelect XT2 Wash 2           | The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : SureSelect XT2 Binding Buffer | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
|  | SureSelect XT2 Wash 1           | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
|  | SureSelect XT2 Wash 2           | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>10.4 Conditions to avoid</b>                | : SureSelect XT2 Binding Buffer | No specific data.  |
|  | SureSelect XT2 Wash 1           | No specific data.  |
|  | SureSelect XT2 Wash 2           | No specific data.  |
| <b>10.5 Incompatible materials</b>             | : SureSelect XT2 Binding Buffer | May react or be incompatible with oxidising materials.   |
|  | SureSelect XT2 Wash 1           | May react or be incompatible with oxidising materials.   |
|  | SureSelect XT2 Wash 2           | May react or be incompatible with oxidising materials.   |
| <b>10.6 Hazardous decomposition products</b>   | : SureSelect XT2 Binding Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  | SureSelect XT2 Wash 1           | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  | SureSelect XT2 Wash 2           | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                          | Result    | Species | Dose       | Exposure |
|--|-----------|---------|------------|----------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | LD50 Oral | Rat     | 3000 mg/kg | -        |

#### Acute toxicity estimates

| Product/ingredient name                          | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | 3000         | N/A            | N/A                      | N/A                         | N/A                                 |

#### Irritation/Corrosion

| Product/ingredient name                          | Result                   | Species | Score | Exposure        | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 mg | -           |
|  | Eyes - Moderate irritant | Rabbit  | -     | 10 mg           | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |

#### Sensitiser

Conclusion/Summary : Not available.

#### Mutagenicity

Conclusion/Summary : Not available.

#### Carcinogenicity

Conclusion/Summary : Not available.

#### Reproductive toxicity

Conclusion/Summary : Not available.

#### Teratogenicity

Conclusion/Summary : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

SureSelect XT2 Binding Buffer : Not available.  
 SureSelect XT2 Wash 1 : Not available.  
 SureSelect XT2 Wash 2 : Not available.

#### Potential acute health effects

**Inhalation** : SureSelect XT2 Binding Buffer : No known significant effects or critical hazards.  
 SureSelect XT2 Wash 1 : No known significant effects or critical hazards.  
 SureSelect XT2 Wash 2 : No known significant effects or critical hazards.

## SECTION 11: Toxicological information

|                     |                                 |   |
|---------------------|---------------------------------|---|
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                     | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |                                 |                   |
|---------------------|---------------------------------|-------------------|
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | SureSelect XT2 Wash 1           | No specific data. |
|                     | SureSelect XT2 Wash 2           | No specific data. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | SureSelect XT2 Wash 1           | No specific data. |
|                     | SureSelect XT2 Wash 2           | No specific data. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | SureSelect XT2 Wash 1           | No specific data. |
|                     | SureSelect XT2 Wash 2           | No specific data. |
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer | No specific data. |
|                     | SureSelect XT2 Wash 1           | No specific data. |
|                     | SureSelect XT2 Wash 2           | No specific data. |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

|                        |                                 |   |
|------------------------|---------------------------------|---|
| <b>General</b>         | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Carcinogenicity</b> | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Mutagenicity</b>    | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Teratogenicity</b>  | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                        | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |

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## SECTION 11: Toxicological information

|                              |                                 |   |
|------------------------------|---------------------------------|---|
| <b>Developmental effects</b> | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                              | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                              | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | : SureSelect XT2 Binding Buffer | No known significant effects or critical hazards. |
|                              | SureSelect XT2 Wash 1           | No known significant effects or critical hazards. |
|                              | SureSelect XT2 Wash 2           | No known significant effects or critical hazards. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name                          | Result  | Species   | Exposure           |
|--|---|---|--------------------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | Acute EC50 4.74 g/L Fresh water   | Algae - Chlamydomonas reinhardtii   | 96 hours           |
|  | Acute EC50 519.6 mg/l Fresh water                                       | Crustaceans - Cypris subglobosa   | 48 hours           |
|  | Acute IC50 6.87 g/L Fresh water   | Aquatic plants - Lemna minor  | 96 hours           |
|  | Acute LC50 1000000 µg/l Fresh water                                     | Fish - Morone saxatilis - Larvae  | 96 hours           |
|  | Chronic LC10 781 mg/l Fresh water                                       | Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) | 3 weeks            |
|  | Chronic NOEC 6 g/L Fresh water  | Aquatic plants - Lemna minor  | 96 hours           |
|  | Chronic NOEC 0.314 g/L Fresh water<br>Chronic NOEC 100 mg/l Fresh water | Daphnia - Daphnia pulex<br>Fish - Gambusia holbrooki - Adult              | 21 days<br>8 weeks |

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised 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.

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## SECTION 13: Disposal considerations

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | <b>ADR/RID</b> | <b>IMDG</b>    | <b>IATA</b>    |
|--|----------------|----------------|----------------|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            |

### Additional information

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

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

### Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

**Label** : SureSelect XT2 Binding Buffer Not applicable.  
SureSelect XT2 Wash 1 Not applicable.  
SureSelect XT2 Wash 2 Not applicable.

### Other EU regulations

**Ozone depleting substances (1005/2009/EU)**

## SECTION 15: Regulatory information

Not listed.

### [Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

### [Seveso Directive](#)

This product is not controlled under the Seveso Directive.

### [International regulations](#)

#### [Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

#### [Montreal Protocol](#)

Not listed.

#### [Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

#### [Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

#### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [Inventory list](#)

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

### [15.2 Chemical safety assessment](#)

: This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### [Abbreviations and acronyms](#)

|  |
|--|
| : ATE = Acute Toxicity Estimate  |
| CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] |
| DMEL = Derived Minimal Effect Level  |
| DNEL = Derived No Effect Level   |
| EUH statement = CLP-specific Hazard statement  |
| N/A = Not available  |
| PBT = Persistent, Bioaccumulative and Toxic  |
| PNEC = Predicted No Effect Concentration   |
| RRN = REACH Registration Number  |
| vPvB = Very Persistent and Very Bioaccumulative  |

### [Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

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## SECTION 16: Other information

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### Full text of abbreviated H statements

|                                       |                                |
|---------------------------------------|--------------------------------|
| SureSelect XT2 Binding Buffer<br>H319 | Causes serious eye irritation. |
|---------------------------------------|--------------------------------|

### Full text of classifications [CLP/GHS]

|   |  |
|---|--|
| SureSelect XT2 Binding Buffer<br>Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
|---|--|

**Date of issue/ Date of revision** : 27/05/2020

**Date of previous issue** : 21/01/2018

**Version** : 2

### Notice to reader

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