

SAFETY DATA SHEET



SureSelect Target Enrichment Box 1-96 Reactions, Part Number 5190-8646

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

1.1 Product identifier

Product name : SureSelect Target Enrichment Box 1-96 Reactions, Part Number 5190-8646

Part no. (chemical kit) : 5190-8646

Part no. :

| | |
|------------------------------------------------------|-----------|
| <input checked="" type="checkbox"/> SureSelect Hyb 1 | 5190-4404 |
| SureSelect Hyb 2 | 5190-4397 |
| SureSelect Hyb 4 | 5190-4406 |
| SureSelect Binding Buffer | 5190-4407 |
| SureSelect Wash Buffer 1 | 5190-4408 |
| SureSelect Wash Buffer 2 | 5190-4409 |

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

Identified uses :

| | |
|---------------------------------------------------------|---------|
| <input checked="" type="checkbox"/> Analytical reagent. | |
| <input checked="" type="checkbox"/> SureSelect Hyb 1 | 2.4 ml |
| SureSelect Hyb 2 | 1.25 ml |
| SureSelect Hyb 4 | 1.25 ml |
| SureSelect Binding Buffer | 80 ml |
| SureSelect Wash Buffer 1 | 48 ml |
| SureSelect Wash Buffer 2 | 144 ml |

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
 5500 Lakeside Cheadle Royal Business Park,
 Cheadle, Cheshire, SK8 3GR
 United Kingdom
 Tel: +44 (0) 345 712 5292
 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 :

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|---------------------------|---------|
| SureSelect Hyb 1 | Mixture |
| SureSelect Hyb 2 | Mixture |
| SureSelect Hyb 4 | Mixture |
| SureSelect Binding Buffer | Mixture |
| SureSelect Wash Buffer 1 | Mixture |
| SureSelect Wash Buffer 2 | Mixture |

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


SureSelect Hyb 2
 H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

SECTION 2: Hazards identification

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| Ingredients of unknown toxicity | : SureSelect Hyb 1 SureSelect Hyb 4 SureSelect Binding Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| Ingredients of unknown ecotoxicity | : SureSelect Hyb 4 | Contains 1% of components with unknown hazards to the aquatic environment |

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

| | | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms | : SureSelect Hyb 2 |  |
| Signal word | : SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 | No signal word. Warning No signal word. No signal word. No signal word. No signal word. |
| Hazard statements | : SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 | No known significant effects or critical hazards. H319 - Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Precautionary statements | | |
| Prevention | : SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 | Not applicable. P280 - Wear eye or face protection. Not applicable. Not applicable. Not applicable. Not applicable. |
| Response | : SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 | Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. Not applicable. Not applicable. Not applicable. Not applicable. |

SECTION 2: Hazards identification

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|-------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------|-----------------------------------------|
| | 2 | | |
| Storage | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Not applicable. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |
| Disposal | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Not applicable. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |
| Supplemental label elements | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Safety data sheet available on request. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Not applicable. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |
| Special packaging requirements | | | |
| Containers to be fitted with child-resistant fastenings | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Not applicable. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |
| Tactile warning of danger | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Not applicable. |
| | | SureSelect Hyb 2 | Not applicable. |
| | | SureSelect Hyb 4 | Not applicable. |
| | | SureSelect Binding | Not applicable. |
| | | Buffer | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 1 | | |
| | | SureSelect Wash Buffer | Not applicable. |
| | 2 | | |

2.3 Other hazards

SECTION 2: Hazards identification

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| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : SureSelect Hyb 1 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| | SureSelect Hyb 2 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| | SureSelect Hyb 4 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| | SureSelect Binding Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| | SureSelect Wash Buffer 1 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| | SureSelect Wash Buffer 2 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do not result in classification | : SureSelect Hyb 1 | None known. |
| | SureSelect Hyb 2 | None known. |
| | SureSelect Hyb 4 | None known. |
| | SureSelect Binding Buffer | None known. |
| | SureSelect Wash Buffer 1 | None known. |
| | SureSelect Wash Buffer 2 | None known. |

SECTION 3: Composition/information on ingredients

| | | |
|-----------------------|---------------------------|---------|
| 3.1 Substances | : SureSelect Hyb 1 | Mixture |
| | SureSelect Hyb 2 | Mixture |
| | SureSelect Hyb 4 | Mixture |
| | SureSelect Binding Buffer | Mixture |
| | SureSelect Wash Buffer 1 | Mixture |
| | SureSelect Wash Buffer 2 | Mixture |

| Product/ingredient name | Identifiers | % | Classification | Type |
|------------------------------------------------------------------------------|------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|------|
| <input checked="" type="checkbox"/> SureSelect Hyb 2 edetic acid | EC: 200-449-4 CAS: 60-00-4 Index: 607-429-00-8 | ≥10 - ≤25 | Eye Irrit. 2, H319 | [1] |
| SureSelect Hyb 4 Sulfuric acid monododecyl ester sodium salt (1:1) | CAS: 8012-56-4 | ≤3 | Acute Tox. 4, H302 See Section 16 for the full text of the H statements declared above. | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

| | |
|------------------------------------------------------|----------------------------------------------------------------|
| Type | |
| <input checked="" type="checkbox"/> SureSelect Hyb 2 | [1] Substance classified with a health or environmental hazard |
| SureSelect Hyb 4 | [1] Substance classified with a health or environmental hazard |

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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|--------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | 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. |
| | SureSelect Hyb 2 | 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. |
| | SureSelect Hyb 4 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove |

SECTION 4: First aid measures

Inhalation

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| SureSelect Binding Buffer | any contact lenses. Get medical attention if irritation occurs. 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. |
| SureSelect Wash Buffer 1 | 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. |
| SureSelect Wash Buffer 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. |
| Inhalation : SureSelect Hyb 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Hyb 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| SureSelect Hyb 4 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Binding Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |

Skin contact

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|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact : SureSelect Hyb 1 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| SureSelect Hyb 2 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| SureSelect Hyb 4 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| SureSelect Binding Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 1 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 2 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |

SECTION 4: First aid measures

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| Ingestion | : SureSelect Hyb 1 | Wash out mouth with water. 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. |
| | SureSelect Hyb 2 | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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. |
| | SureSelect Hyb 4 | Wash out mouth with water. 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. |
| | SureSelect Binding Buffer | Wash out mouth with water. 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. |
| | SureSelect Wash Buffer 1 | Wash out mouth with water. 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. |
| | SureSelect Wash Buffer 2 | Wash out mouth with water. 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. |
| Protection of first-aiders | : SureSelect Hyb 1 | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Hyb 2 | 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. |
| | SureSelect Hyb 4 | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Binding Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Wash Buffer 1 | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Wash Buffer 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

Over-exposure signs/symptoms

| | | |
|--------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Eye contact | : SureSelect Hyb 1 SureSelect Hyb 2 | No specific data. Adverse symptoms may include the following: pain or irritation watering redness |
| | SureSelect Hyb 4 | No specific data. |
| | SureSelect Binding Buffer | No specific data. |
| | SureSelect Wash Buffer 1 | No specific data. |

SECTION 4: First aid measures

| | | | |
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| | | SureSelect Wash Buffer 2 | No specific data. |
| Inhalation | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| Skin contact | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| Ingestion | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

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|----------------------------|---|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes to physician | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | | SureSelect Hyb 2 | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | | SureSelect Hyb 4 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | | SureSelect Binding Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | | SureSelect Wash Buffer 1 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | | SureSelect Wash Buffer 2 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific treatment. |
| | | SureSelect Hyb 2 | No specific treatment. |
| | | SureSelect Hyb 4 | No specific treatment. |
| | | SureSelect Binding Buffer | No specific treatment. |
| | | SureSelect Wash Buffer 1 | No specific treatment. |
| | | SureSelect Wash Buffer 2 | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | | |
|---------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|
| Suitable extinguishing media | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | Use an extinguishing agent suitable for the surrounding fire. |
| | SureSelect Hyb 2 | Use an extinguishing agent suitable for the surrounding fire. |
| | SureSelect Hyb 4 | Use an extinguishing agent suitable for the surrounding fire. |
| | SureSelect Binding Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | SureSelect Wash Buffer 1 | Use an extinguishing agent suitable for the surrounding fire. |
| | SureSelect Wash Buffer 2 | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | None known. |
| | SureSelect Hyb 2 | None known. |
| | SureSelect Hyb 4 | None known. |
| | SureSelect Binding Buffer | None known. |
| | SureSelect Wash Buffer 1 | None known. |
| | SureSelect Wash Buffer 2 | None known. |

5.2 Special hazards arising from the substance or mixture

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|----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hazards from the substance or mixture | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureSelect Hyb 2 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureSelect Hyb 4 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureSelect Binding Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureSelect Wash Buffer 1 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureSelect Wash Buffer 2 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous combustion products | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides |
| | SureSelect Hyb 2 | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
| | SureSelect Hyb 4 | Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides |
| | SureSelect Binding Buffer | Decomposition products may include the following materials: halogenated compounds metal oxide/oxides |
| | SureSelect Wash Buffer 1 | No specific data. |
| | SureSelect Wash Buffer 2 | No specific data. |

5.3 Advice for firefighters

SECTION 5: Firefighting measures

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|-------------------------------------------------------|---|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective actions for fire-fighters | : | ☑ SureSelect Hyb 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 Hyb 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. |
| | | SureSelect Hyb 4 | 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 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 Wash Buffer 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 Wash Buffer 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. |
| Special protective equipment for fire-fighters | : | ☑ SureSelect Hyb 1 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | | SureSelect Hyb 2 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | | SureSelect Hyb 4 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | | SureSelect 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. |
| | | SureSelect Wash Buffer 1 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | | SureSelect Wash Buffer 2 | 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

6.1 Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel | : | ☑ SureSelect Hyb 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 Hyb 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| | | SureSelect Hyb 4 | 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 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 Wash Buffer 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. |

SECTION 6: Accidental release measures

For emergency responders

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| SureSelect Wash Buffer 2 | unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| : SureSelect Hyb 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 Hyb 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". |
| SureSelect Hyb 4 | 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 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 Wash Buffer 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 Wash Buffer 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

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| : SureSelect Hyb 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 Hyb 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). |
| SureSelect Hyb 4 | 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 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 Wash Buffer 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 Wash Buffer 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

SECTION 6: Accidental release measures

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| Methods for cleaning up | : SureSelect Hyb 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. |
| | SureSelect Hyb 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. |
| | SureSelect Hyb 4 | 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 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 Wash Buffer 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. |
| | SureSelect Wash Buffer 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

| | | |
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| Protective measures | : SureSelect Hyb 1 | Put on appropriate personal protective equipment (see Section 8). |
| | SureSelect Hyb 2 | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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. |
| | SureSelect Hyb 4 | Put on appropriate personal protective equipment (see Section 8). |
| | SureSelect Binding Buffer | Put on appropriate personal protective equipment (see Section 8). |
| | SureSelect Wash Buffer 1 | Put on appropriate personal protective equipment (see Section 8). |
| | SureSelect Wash Buffer 2 | Put on appropriate personal protective equipment (see Section 8). |
| Advice on general occupational hygiene | : SureSelect Hyb 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 Hyb 2 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. |

SECTION 7: Handling and storage

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SureSelect Hyb 4 | Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| SureSelect 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 Wash Buffer 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 Wash Buffer 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

Storage

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| : SureSelect Hyb 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 Hyb 2 | 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 Hyb 4 | 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 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 7: Handling and storage

SureSelect Wash Buffer
1

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.

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 Wash Buffer
2

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.

7.3 Specific end use(s)

Recommendations

- : SureSelect Hyb 1 Industrial applications, Professional applications.
- SureSelect Hyb 2 Industrial applications, Professional applications.
- SureSelect Hyb 4 Industrial applications, Professional applications.
- SureSelect Binding Buffer Industrial applications, Professional applications.
- SureSelect Wash Buffer 1 Industrial applications, Professional applications.
- SureSelect Wash Buffer 2 Industrial applications, Professional applications.

Industrial sector specific solutions

- : SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

- : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---------------------------------|------|-----------------------|-----------------------|--------------------|----------|
| SureSelect Hyb 2 edetic acid | DNEL | Long term Inhalation | 0.6 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 1.2 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1.5 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.5 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 3 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 3 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Oral | 25 mg/kg bw/day | General population | Systemic |

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

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

9.1 Information on basic physical and chemical properties**Appearance**

| | | | |
|-------------------------------------|------------------------------------------------|--------------------|----------------|
| Physical state | : SureSelect Hyb 1 | Liquid. | |
| | SureSelect Hyb 2 | Liquid. | |
| | SureSelect Hyb 4 | Liquid. | |
| | SureSelect Binding Buffer | Liquid. | |
| | SureSelect Wash Buffer 1 | Liquid. | |
| | SureSelect Wash Buffer 2 | Liquid. | |
| | Colour | : SureSelect Hyb 1 | Not available. |
| | | SureSelect Hyb 2 | Not available. |
| SureSelect Hyb 4 | | Not available. | |
| SureSelect Binding Buffer | | Not available. | |
| SureSelect Wash Buffer 1 | | Not available. | |
| SureSelect Wash Buffer 2 | | Not available. | |
| Odour | | : SureSelect Hyb 1 | Not available. |
| | | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. | |
| | SureSelect Binding Buffer | Not available. | |
| | SureSelect Wash Buffer 1 | Not available. | |
| | SureSelect Wash Buffer 2 | Not available. | |
| | Odour threshold | : SureSelect Hyb 1 | Not available. |
| | | SureSelect Hyb 2 | Not available. |
| SureSelect Hyb 4 | | Not available. | |
| SureSelect Binding Buffer | | Not available. | |
| SureSelect Wash Buffer 1 | | Not available. | |
| SureSelect Wash Buffer 2 | | Not available. | |
| Melting point/freezing point | | : SureSelect Hyb 1 | Not available. |
| | | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | 0°C | |
| | SureSelect Binding Buffer | Not available. | |
| | SureSelect Wash Buffer 1 | 0°C | |
| | SureSelect Wash Buffer 2 | 0°C | |
| | Initial boiling point and boiling range | : SureSelect Hyb 1 | Not available. |
| | | SureSelect Hyb 2 | Not available. |
| SureSelect Hyb 4 | | 100°C | |
| SureSelect Binding Buffer | | Not available. | |
| SureSelect Wash Buffer 1 | | 100°C | |
| SureSelect Wash Buffer 2 | | 100°C | |

SECTION 9: Physical and chemical properties

Flammability : SureSelect Hyb 1 Not applicable.
 SureSelect Hyb 2 Not applicable.
 SureSelect Hyb 4 Not applicable.
 SureSelect Binding Not applicable.
 Buffer
 SureSelect Wash Buffer 1 Not applicable.
 SureSelect Wash Buffer 2 Not applicable.

Upper/lower flammability or explosive limits : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.

Flash point :

| Ingredient name | Closed cup | | Open cup | |
|-------------------------|------------|-----------|----------|--------|
| | °C | Method | °C | Method |
| SureSelect Hyb 2 | | | | |
| Edetic acid | >100 | DIN 51758 | | |

Auto-ignition temperature :

| Ingredient name | °C | Method |
|-------------------------|------|----------|
| SureSelect Hyb 2 | | |
| Edetic acid | >400 | VDI 2263 |

Decomposition temperature : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.

pH : SureSelect Hyb 1 7.4
 SureSelect Hyb 2 8
 SureSelect Hyb 4 5.2 to 6.2
 SureSelect Binding 7.5
 Buffer
 SureSelect Wash Buffer 1 7
 SureSelect Wash Buffer 2 7

Viscosity : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.

SECTION 9: Physical and chemical properties

| Solubility(ies) | Media | Result |
|-----------------|---------------------------------------|---------|
| | SureSelect Hyb 1 water | Soluble |
| | SureSelect Hyb 2 water | Soluble |
| | SureSelect Hyb 4 water | Soluble |
| | SureSelect Binding Buffer water | Soluble |
| | SureSelect Wash Buffer 1 water | Soluble |
| | SureSelect Wash Buffer 2 water | Soluble |

| Partition coefficient: n-octanol/water | Media | Result |
|----------------------------------------|---------------------------|-----------------|
| | SureSelect Hyb 1 | Not applicable. |
| | SureSelect Hyb 2 | Not applicable. |
| | SureSelect Hyb 4 | Not applicable. |
| | SureSelect Binding Buffer | Not applicable. |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |

| Vapour pressure | Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|------------------------------------|-------------------------|-----|--------|-------------------------|------|--------|
| | | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | SureSelect Hyb 1 water | 17.5 | 2.3 | | 92.258 | 12.3 | |
| | SureSelect Hyb 2 water | 17.5 | 2.3 | | 92.258 | 12.3 | |
| | Edetic acid | 0 | 0 | | | | |
| | SureSelect Hyb 4 water | 17.5 | 2.3 | | 92.258 | 12.3 | |
| | SureSelect Binding Buffer water | 17.5 | 2.3 | | 92.258 | 12.3 | |
| | SureSelect Wash Buffer 1 water | 17.5 | 2.3 | | 92.258 | 12.3 | |
| | SureSelect Wash Buffer 2 water | 17.5 | 2.3 | | 92.258 | 12.3 | |

SECTION 9: Physical and chemical properties

| | | |
|---------------------------------|--------------------------|-----------------|
| Evaporation rate | : SureSelect Hyb 1 | Not available. |
| | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. |
| | SureSelect Binding | Not available. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | | |
| Relative density | : SureSelect Hyb 1 | Not available. |
| | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. |
| | SureSelect Binding | Not available. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | | |
| Vapour density | : SureSelect Hyb 1 | Not available. |
| | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. |
| | SureSelect Binding | Not available. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | | |
| Explosive properties | : SureSelect Hyb 1 | Not available. |
| | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. |
| | SureSelect Binding | Not available. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | | |
| Oxidising properties | : SureSelect Hyb 1 | Not available. |
| | SureSelect Hyb 2 | Not available. |
| | SureSelect Hyb 4 | Not available. |
| | SureSelect Binding | Not available. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | | |
| Particle characteristics | | |
| Median particle size | : SureSelect Hyb 1 | Not applicable. |
| | SureSelect Hyb 2 | Not applicable. |
| | SureSelect Hyb 4 | Not applicable. |
| | SureSelect Binding | Not applicable. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |
| | | |

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| | | |
|------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 10.1 Reactivity | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Hyb 2 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Hyb 4 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Binding Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Wash Buffer 1 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Wash Buffer 2 | No specific test data related to reactivity available for this product or its ingredients. |
| | 10.2 Chemical stability | : <input checked="" type="checkbox"/> SureSelect Hyb 1 |
| SureSelect Hyb 2 | | The product is stable. |
| SureSelect Hyb 4 | | The product is stable. |
| SureSelect Binding Buffer | | The product is stable. |
| SureSelect Wash Buffer 1 | | The product is stable. |
| SureSelect Wash Buffer 2 | | The product is stable. |
| 10.3 Possibility of hazardous reactions | | : <input checked="" type="checkbox"/> SureSelect Hyb 1 |
| | SureSelect Hyb 2 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SureSelect Hyb 4 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SureSelect Binding Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SureSelect Wash Buffer 1 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SureSelect Wash Buffer 2 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | 10.4 Conditions to avoid | : <input checked="" type="checkbox"/> SureSelect Hyb 1 |
| SureSelect Hyb 2 | | No specific data. |
| SureSelect Hyb 4 | | No specific data. |
| SureSelect Binding Buffer | | No specific data. |
| SureSelect Wash Buffer 1 | | No specific data. |
| SureSelect Wash Buffer 2 | | No specific data. |
| 10.5 Incompatible materials | | : <input checked="" type="checkbox"/> SureSelect Hyb 1 |
| | SureSelect Hyb 2 | May react or be incompatible with oxidising materials. |
| | SureSelect Hyb 4 | May react or be incompatible with oxidising materials. |
| | SureSelect Binding Buffer | May react or be incompatible with oxidising materials. |
| | SureSelect Wash Buffer 1 | May react or be incompatible with oxidising materials. |
| | SureSelect Wash Buffer 2 | May react or be incompatible with oxidising materials. |

SECTION 10: Stability and reactivity

| | | |
|----------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------|
| 10.6 Hazardous decomposition products | : SureSelect Hyb 1 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SureSelect Hyb 2 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SureSelect Hyb 4 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SureSelect Binding Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SureSelect Wash Buffer 1 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SureSelect Wash Buffer 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

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 Hyb 4 | | | | | |
| SureSelect Hyb 4 | 128800.0 | N/A | N/A | N/A | N/A |
| Sulfuric acid monododecyl ester sodium salt (1:1) | 1288 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

Conclusion/Summary : Not available.

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 Hyb 1 | Not available. |
| SureSelect Hyb 2 | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. |
| SureSelect Hyb 4 | Not available. |
| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1 | Not available. |
| SureSelect Wash Buffer 2 | Not available. |

Potential acute health effects

SECTION 11: Toxicological information

| | | | |
|---------------------|---|---------------------------|---------------------------------------------------|
| Inhalation | : | ☑ SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| Ingestion | : | ☑ SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| Skin contact | : | ☑ SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| Eye contact | : | ☑ SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | | SureSelect Hyb 2 | Causes serious eye irritation. |
| | | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | | |
|---------------------|---|---------------------------|-------------------|
| Inhalation | : | ☑ SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| Ingestion | : | ☑ SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| Skin contact | : | ☑ SureSelect Hyb 1 | No specific data. |
| | | SureSelect Hyb 2 | No specific data. |
| | | SureSelect Hyb 4 | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |

SECTION 11: Toxicological information

| | | |
|--------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| | SureSelect Wash Buffer 2 | No specific data. |
| Eye contact | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data. |
| | SureSelect Hyb 2 | Adverse symptoms may include the following: pain or irritation watering redness |
| | SureSelect Hyb 4 | No specific data. |
| | SureSelect Binding Buffer | No specific data. |
| | SureSelect Wash Buffer 1 | No specific data. |
| | SureSelect Wash Buffer 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

| | | |
|------------------------|--------------------------------------------------------|---------------------------------------------------|
| General | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| Carcinogenicity | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| Mutagenicity | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |

SECTION 11: Toxicological information

| | | |
|------------------------------|--------------------------------------------------------|---------------------------------------------------|
| Reproductive toxicity | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
| | SureSelect Hyb 2 | No known significant effects or critical hazards. |
| | SureSelect Hyb 4 | No known significant effects or critical hazards. |
| | SureSelect Binding | No known significant effects or critical hazards. |
| | Buffer | |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------------------------------------------|------------------------------------|------------------------------------------------|----------|
| <input checked="" type="checkbox"/> SureSelect Hyb 2 edetic acid | Acute EC50 113000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 41000 µg/l Fresh water | Fish - Bluegill - Lepomis macrochirus | 96 hours |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------------------------------------------|-------------------|------------|------------------|
| <input checked="" type="checkbox"/> SureSelect Hyb 2 edetic acid | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---------------------------------------------------------------------|--------------------|-----|-----------|
| <input checked="" type="checkbox"/> SureSelect Hyb 2 edetic acid | -3.86 | 1.8 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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.

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

SECTION 13: Disposal considerations

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

| | ADR/RID | IMDG | IATA |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - |
| 14.4 Packing group | - | - | - |
| 14.5 Environmental hazards | 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 UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

Not listed.

SECTION 15: Regulatory information

| | | |
|--------------|---------------------------|-----------------|
| Label | : SureSelect Hyb 1 | Not applicable. |
| | SureSelect Hyb 2 | Not applicable. |
| | SureSelect Hyb 4 | Not applicable. |
| | SureSelect Binding Buffer | Not applicable. |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

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

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia | : Not determined. |
| Canada | : Not determined. |
| China | : Not determined. |
| Eurasian Economic Union | : Russian Federation inventory : Not determined. |
| Japan | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. |
| New Zealand | : Not determined. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : Not determined. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : Not determined. |
| Viet Nam | : Not determined. |

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

| Classification | Justification |
|----------------------------------------|--------------------|
| SureSelect Hyb 2 Eye Irrit. 2, H319 | Calculation method |

Full text of abbreviated H statements

| | |
|------------------------------------|--------------------------------|
| SureSelect Hyb 2 H319 | Causes serious eye irritation. |
| SureSelect Hyb 4 H302 | Harmful if swallowed. |

Full text of classifications

| | |
|----------------------------------|------------------------------------------------|
| SureSelect Hyb 2 Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| SureSelect Hyb 4 Acute Tox. 4 | ACUTE TOXICITY - Category 4 |

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Notice to reader

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