

SAFETY DATA SHEET



SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940

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

1.1 Product identifier

Product name : SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940
Part no. (chemical kit) : 5190-3940
Part no. : SureSelect RNase Block 5190-4383 / 5190-4386
SureSelect XT2 5190-4078 / 5190-4082 / 5190-4086
Hybridization Buffer
SureSelect XT2 5190-4079 / 5190-4083 / 5190-4087
Blocking Mix

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

Material uses : Analytical reagent.
SureSelect RNase Block 16 µl - 96 µl
SureSelect XT2 Hybridization Buffer 37 µl - 2220 µl
SureSelect XT2 Blocking Mix 9 µl - 540 µl

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 RNase Block Mixture
SureSelect XT2 Mixture
Hybridization Buffer
SureSelect XT2 Blocking Mix Mixture

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

SureSelect XT2

Hybridization Buffer

H319

SERIOUS EYE DAMAGE/EYE IRRITATION

Category 2

Ingredients of unknown toxicity : SureSelect RNase Block Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
SureSelect XT2 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
Hybridization 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 oral toxicity: 1 - 10%

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SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity : SureSelect XT2 Hybridization Buffer Contains 1.4% 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 XT2 Hybridization Buffer



Signal word : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No signal word. Warning No signal word.

Hazard statements : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards. H319 - Causes serious eye irritation. No known significant effects or critical hazards.

Precautionary statements

Prevention : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix Not applicable. P280 - Wear eye or face protection. Not applicable.

Response : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix 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.

Storage : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix Not applicable. Not applicable. Not applicable.

Disposal : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix Not applicable. Not applicable. Not applicable.

Hazardous ingredients : SureSelect XT2 Hybridization Buffer Not applicable.

Supplemental label elements : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix Not applicable. Not applicable. Not applicable.

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SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : SureSelect RNase Block Not applicable.
 SureSelect XT2 Not applicable.
 Hybridization Buffer
 SureSelect XT2 Blocking Mix Not applicable.

Special packaging requirements

Tactile warning of danger : SureSelect RNase Block Not applicable.
 SureSelect XT2 Not applicable.
 Hybridization Buffer
 SureSelect XT2 Blocking Mix Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : SureSelect RNase Block This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
 SureSelect XT2 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
 Hybridization Buffer
 SureSelect XT2 Blocking Mix 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 RNase Block None known.
 SureSelect XT2 None known.
 Hybridization Buffer
 SureSelect XT2 Blocking Mix None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : SureSelect RNase Block Mixture
 SureSelect XT2 Hybridization Buffer Mixture
 SureSelect XT2 Blocking Mix Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
SureSelect RNase Block Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
SureSelect XT2 Hybridization Buffer Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤10	Eye Irrit. 2, H319	[1]
Sodium dodecyl sulphate	EC: 205-788-1 CAS: 151-21-3	≤3	Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[1]

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SECTION 3: Composition/information on ingredients

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

- [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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: SureSelect RNase Block	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 XT2 Hybridization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	SureSelect XT2 Blocking Mix	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 RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect XT2 Blocking Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Hybridization Buffer	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 XT2 Blocking Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: SureSelect RNase Block	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 XT2 Hybridization Buffer	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

SECTION 4: First aid measures

exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. 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 RNase Block	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Hybridization Buffer	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 XT2 Blocking Mix	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

Eye contact	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data.
Inhalation	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No specific data. No specific data. No specific data.

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SECTION 4: First aid measures

Skin contact	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No specific data. No specific data. No specific data.
Ingestion	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
Specific treatments	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide

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SECTION 5: Firefighting measures

carbon monoxide
nitrogen oxides
phosphorus oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: SureSelect RNase Block	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 Hybridization 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 Blocking Mix	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 RNase Block	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 Hybridization 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 Blocking Mix	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: SureSelect RNase Block	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 Hybridization 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SureSelect XT2 Blocking Mix	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.
For emergency responders	: SureSelect RNase Block	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 Hybridization 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 Blocking	If specialised clothing is required to deal with the spillage,

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SECTION 6: Accidental release measures

Mix 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 RNase Block 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 Hybridization 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 Blocking Mix 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

Methods for cleaning up

- : SureSelect RNase Block 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 Hybridization 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 Blocking Mix 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

Protective measures

- : SureSelect RNase Block Put on appropriate personal protective equipment (see Section 8).
- SureSelect XT2 Hybridization Buffer 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 XT2 Blocking Mix Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

- : SureSelect RNase Block 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 Hybridization 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,

SECTION 7: Handling and storage

SureSelect XT2 Blocking Mix	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.
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7.2 Conditions for safe storage, including any incompatibilities

Storage	: SureSelect RNase Block	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 Hybridization 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 Blocking Mix	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 RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not available. Not available. Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureSelect RNase Block Glycerol	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist

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 Hybridization Buffer 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 ³	General population	Systemic
	DNEL	Long term Inhalation	443.28 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	2068.62 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2068.62 mg/m ³	Workers	Systemic
Sodium dodecyl sulphate	DNEL	Long term Oral	24 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	85 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	285 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2440 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	4060 mg/kg bw/day	Workers	Systemic	

PNECs

No PNECs available

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection

- 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 RNase Block	Liquid.
	SureSelect XT2	Liquid.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Liquid.
Colour	: SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Odour	: SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Odour threshold	: SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.

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SECTION 9: Physical and chemical properties

Melting point/freezing point	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	0°C
Initial boiling point and boiling range	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	100°C (212°F)
Flammability (solid, gas)	SureSelect RNase Block	Not applicable.
	SureSelect XT2	Not applicable.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not applicable.
Upper/lower flammability or explosive limits	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
SureSelect RNase Block (R*, R*) -1,4-Dimercaptobutane-2,3-diol Glycerol	>110	>230		177	350.6	
SureSelect XT2 Hybridization Buffer Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate Edetic acid	>100	>212	DIN 51758			
SureSelect XT2 Blocking Mix Edetic acid	>100	>212	DIN 51758			

Auto-ignition temperature

Ingredient name	°C	°F	Method
SureSelect RNase Block Glycerol	370	698	
4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid	>400	>752	EU A.16
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate Edetic acid	310.5	590.9	VDI 2263
SureSelect XT2 Blocking Mix Edetic acid	>400	>752	VDI 2263

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SECTION 9: Physical and chemical properties

Decomposition temperature	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not available. Not available. Not available.
pH	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	7.6 7.4 7.5
Viscosity	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not available. Not available. Not available.
Solubility(ies)	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not applicable. Not applicable. Not applicable.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect RNase Block						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
SureSelect XT2 Hybridization Buffer						
water	23.8	3.2		92.258	12.3	
Sodium dodecyl sulphate	≤0.0013501	≤0.00018				
SureSelect XT2 Blocking Mix						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

Evaporation rate	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not available. Not available. Not available.
Relative density	:	SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Not available. Not available. Not available.

SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940

SECTION 9: Physical and chemical properties

Vapour density : SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

Explosive properties : SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

Oxidising properties : SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

Particle characteristics

Median particle size : SureSelect RNase Block Not applicable.
SureSelect XT2 Not applicable.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : SureSelect RNase Block No specific test data related to reactivity available for this product or its ingredients.
SureSelect XT2 No specific test data related to reactivity available for this product or its ingredients.
Hybridization Buffer
SureSelect XT2 Blocking Mix No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : SureSelect RNase Block The product is stable.
SureSelect XT2 The product is stable.
Hybridization Buffer
SureSelect XT2 Blocking Mix The product is stable.

10.3 Possibility of hazardous reactions : SureSelect RNase Block Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT2 Under normal conditions of storage and use, hazardous reactions will not occur.
Hybridization Buffer
SureSelect XT2 Blocking Mix Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : SureSelect RNase Block No specific data.
SureSelect XT2 No specific data.
Hybridization Buffer
SureSelect XT2 Blocking Mix No specific data.

10.5 Incompatible materials : SureSelect RNase Block May react or be incompatible with oxidising materials.
SureSelect XT2 May react or be incompatible with oxidising materials.
Hybridization Buffer
SureSelect XT2 Blocking Mix May react or be incompatible with oxidising materials.

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect XT2 Hybridization Buffer				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 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 Hybridization Buffer					
SureSelect XT2 Hybridization Buffer	48548.8	N/A	N/A	N/A	50.7
Sodium chloride	3000	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect XT2 Hybridization Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
Sodium dodecyl sulphate	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940

SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Not available.

Potential acute health effects

Inhalation : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Skin contact : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Eye contact : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No specific data. No specific data. No specific data.

Ingestion : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No specific data. No specific data. No specific data.

Skin contact : SureSelect RNase Block SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No specific data. No specific data. No specific data.

SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940

SECTION 11: Toxicological information

Eye contact	: SureSelect RNase Block SureSelect XT2 Hybridization Buffer	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect XT2 Blocking Mix	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 : SureSelect RNase Block No known significant effects or critical hazards.
SureSelect XT2 No known significant effects or critical hazards.
Hybridization Buffer
SureSelect XT2 Blocking No known significant effects or critical hazards.
Mix

Carcinogenicity : SureSelect RNase Block No known significant effects or critical hazards.
SureSelect XT2 No known significant effects or critical hazards.
Hybridization Buffer
SureSelect XT2 Blocking No known significant effects or critical hazards.
Mix

Mutagenicity : SureSelect RNase Block No known significant effects or critical hazards.
SureSelect XT2 No known significant effects or critical hazards.
Hybridization Buffer
SureSelect XT2 Blocking No known significant effects or critical hazards.
Mix

Reproductive toxicity : SureSelect RNase Block No known significant effects or critical hazards.
SureSelect XT2 No known significant effects or critical hazards.
Hybridization Buffer
SureSelect XT2 Blocking No known significant effects or critical hazards.
Mix

Other information : SureSelect RNase Block Adverse symptoms may include the following: May cause skin sensitisation.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Not available.
Mix

SECTION 12: Ecological information

12.1 Toxicity

SureSelect XT2 Pre-Capture ILM Module Box 2, Part Number 5190-3940

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure	
SureSelect XT2 Hybridization Buffer Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours	
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours	
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	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	Daphnia - Daphnia pulex	21 days	
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	
	Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
		Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
		Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
		Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
		Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
Chronic NOEC 1 mg/l Fresh water		Crustaceans - Pseudosida ramosa - Neonate	21 days	
Chronic NOEC 3.2 mg/l Fresh water		Daphnia - Daphnia magna - Neonate	21 days	
Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days		

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	-2.03	-	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

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SECTION 12: Ecological information

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

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

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 RNase Block	Not applicable.
		SureSelect XT2 Hybridization	Not applicable.
		Buffer	
		SureSelect XT2 Blocking Mix	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

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

Australia	:	Not determined.
Canada	:	Not determined.
China	:	All components are listed or exempted.
Europe	:	All components are listed or exempted.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.

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SECTION 15: Regulatory information

United States : All components are active or exempted.
Viet Nam : Not determined.

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]

Classification	Justification
SureSelect XT2 Hybridization Buffer Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

SureSelect XT2 Hybridization Buffer H228 H302 H315 H318 H319 H332 H335 H400 H412	Flammable solid. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

SureSelect XT2 Hybridization Buffer Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Sol. 2 Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE SOLIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Date of issue/ Date of revision : 02/06/2022

Date of previous issue : No previous validation

Version : 1

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