

SAFETY DATA SHEET

SureSelect Enzymatic Fragmentation Kit, 96 Reactions, Automation, Part Number 5191-6764

Section 1. Identification

Product identifier : SureSelect Enzymatic Fragmentation Kit, 96 Reactions, Automation, Part Number 5191-6764

Part no. (chemical kit) : 5191-6764

Part no. : 5X SureSelect Fragmentation Buffer 5191-4077
SureSelect Fragmentation Enzyme 5191-6763

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

Identified uses : ☒ Analytical reagent.
For research use only.
☒ 5X SureSelect Fragmentation Buffer 0.310 ml (96 reactions)
SureSelect Fragmentation Enzyme 0.155 ml (96 reactions)

Uses advised against : ☒ Not for use in diagnostic procedures.

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

☒ SureSelect Fragmentation Enzyme
H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

☒ 5X SureSelect Fragmentation Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.5%

GHS label elements

Signal word : ☒ 5X SureSelect Fragmentation Buffer No signal word.
SureSelect Fragmentation Enzyme WARNING

Hazard statements : ☒ 5X SureSelect Fragmentation Buffer No known significant effects or critical hazards.
SureSelect Fragmentation Enzyme H320 - Causes eye irritation.

Precautionary statements

Prevention : 5X SureSelect Fragmentation Buffer Not applicable.
SureSelect Fragmentation Enzyme Not applicable.

Section 2. Hazard(s) identification

Response	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	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.
Storage	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Not applicable. Not applicable.
Disposal	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Not applicable. Not applicable.
Supplemental label elements		
Additional warning phrases	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Not applicable. Not applicable.
Other hazards which do not result in classification	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
5X SureSelect Fragmentation Enzyme		
Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	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. 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. If irritation persists, get medical attention.
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Section 4. First aid measures

Inhalation	: 5X SureSelect Fragmentation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Fragmentation Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: 5X SureSelect Fragmentation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Fragmentation Enzyme	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.
Ingestion	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 5X SureSelect Fragmentation Buffer	No known significant effects or critical hazards.
	SureSelect Fragmentation Enzyme	Causes eye irritation.
Inhalation	: 5X SureSelect Fragmentation Buffer	No known significant effects or critical hazards.
	SureSelect Fragmentation Enzyme	No known significant effects or critical hazards.
Skin contact	: 5X SureSelect Fragmentation Buffer	No known significant effects or critical hazards.
	SureSelect Fragmentation Enzyme	No known significant effects or critical hazards.
Ingestion	: 5X SureSelect Fragmentation Buffer	No known significant effects or critical hazards.
	SureSelect Fragmentation Enzyme	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: 5X SureSelect Fragmentation Buffer	No specific data.
	SureSelect Fragmentation Enzyme	Adverse symptoms may include the following: irritation watering redness
Inhalation	: 5X SureSelect Fragmentation Buffer	No specific data.
	SureSelect Fragmentation Enzyme	No specific data.
Skin contact	: 5X SureSelect Fragmentation Buffer	No specific data.
	SureSelect Fragmentation Enzyme	No specific data.
Ingestion	: 5X SureSelect Fragmentation Buffer	No specific data.
	SureSelect Fragmentation Enzyme	No specific data.
<u>Indication of immediate medical attention and special treatment needed, if necessary</u>		
Notes to physician	: 5X SureSelect Fragmentation Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Fragmentation Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 5X SureSelect Fragmentation Buffer	No specific treatment.
	SureSelect Fragmentation Enzyme	No specific treatment.
Protection of first-aiders	: 5X SureSelect Fragmentation Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fragmentation Enzyme	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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: 5X SureSelect Fragmentation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Fragmentation Enzyme	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 5X SureSelect Fragmentation Buffer	None known.
	SureSelect Fragmentation Enzyme	None known.
Specific hazards arising from the chemical	: 5X SureSelect Fragmentation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Fragmentation Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.

Section 5. Firefighting measures

Hazardous thermal decomposition products	: 5X SureSelect Fragmentation Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	SureSelect Fragmentation Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	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	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	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.
For emergency responders	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	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).

Section 6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up	: 5X SureSelect Fragmentation 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 Fragmentation Enzyme	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Put on appropriate personal protective equipment (see Section 8). 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.
Advice on general occupational hygiene	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	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. 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


Section 7. Handling and storage

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
 SureSelect Fragmentation Enzyme Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.


Biological exposure indices

No exposure indices known.


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

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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: chemical splash goggles.

Skin protection

- Hand protection** :  Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	5X SureSelect	Liquid.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Liquid.
Colour	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Odour	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Odour threshold	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
pH	5X SureSelect	7.5
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	7.5
Melting point/freezing point	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Boiling point, initial boiling point, and boiling range	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Flash point		
Evaporation rate	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Flammability	5X SureSelect	Not applicable.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not applicable.
Lower and upper explosion limit/flammability limit	5X SureSelect	Not available.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not available.
Vapour pressure		

Section 9. Physical and chemical properties and safety characteristics

	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C			
		mm Hg	kPa	Method	mm Hg	kPa	Method	
	5X SureSelect Fragmentation Buffer							
	water	17.5	2.3	-	92.258	12.3	-	
	SureSelect Fragmentation Enzyme							
	water	17.5	2.3	-	92.258	12.3	-	
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
Relative vapour density	: 5X SureSelect Fragmentation Buffer		Not available.					
	SureSelect Fragmentation Enzyme		Not available.					
Relative density	: 5X SureSelect Fragmentation Buffer		Not available.					
	SureSelect Fragmentation Enzyme		Not available.					
Solubility(ies)	: Media			Result				
	5X SureSelect Fragmentation Buffer			Soluble				
	water							
	SureSelect Fragmentation Enzyme			Soluble				
	water							
Partition coefficient: n-octanol/water	: 5X SureSelect Fragmentation Buffer		Not applicable.					
	SureSelect Fragmentation Enzyme		Not applicable.					
Auto-ignition temperature	: Ingredient name		°C	°F	Method			
	5X SureSelect Fragmentation Buffer							
	Caesium chloride		>400	>752				-
	SureSelect Fragmentation Enzyme							
	Glycerol		370	698	-			
Decomposition temperature	: 5X SureSelect Fragmentation Buffer		Not available.					
	SureSelect Fragmentation Enzyme		Not available.					
Viscosity	: 5X SureSelect Fragmentation Buffer		Not available.					
	SureSelect Fragmentation Enzyme		Not available.					
Particle characteristics								

Section 9. Physical and chemical properties and safety characteristics

Median particle size	5X SureSelect	Not applicable.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Not applicable.

Section 10. Stability and reactivity

Reactivity	5X SureSelect	No specific test data related to reactivity available for this product or its ingredients.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	5X SureSelect	The product is stable.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	The product is stable.
Possibility of hazardous reactions	5X SureSelect	Under normal conditions of storage and use, hazardous reactions will not occur.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	5X SureSelect	No specific data.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	No specific data.
Incompatible materials	5X SureSelect	May react or be incompatible with oxidising materials.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	May react or be incompatible with oxidising materials.
Hazardous decomposition products	5X SureSelect	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Fragmentation Buffer	
	SureSelect Fragmentation Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect Fragmentation Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Fragmentation Enzyme Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

Section 11. Toxicological information

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	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
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Potential acute health effects

Eye contact	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No known significant effects or critical hazards. Causes eye irritation.
Inhalation	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No specific data. Adverse symptoms may include the following: irritation watering redness
Inhalation	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No specific data. No specific data.
Skin contact	: 5X SureSelect Fragmentation Buffer SureSelect Fragmentation Enzyme	No specific data. No specific data.

Section 11. Toxicological information

Ingestion : 5X SureSelect Fragmentation Buffer No specific data.
 SureSelect Fragmentation Enzyme 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 : 5X SureSelect Fragmentation Buffer No known significant effects or critical hazards.
 SureSelect Fragmentation Enzyme No known significant effects or critical hazards.

Carcinogenicity : 5X SureSelect Fragmentation Buffer No known significant effects or critical hazards.
 SureSelect Fragmentation Enzyme No known significant effects or critical hazards.

Mutagenicity : 5X SureSelect Fragmentation Buffer No known significant effects or critical hazards.
 SureSelect Fragmentation Enzyme No known significant effects or critical hazards.

Reproductive toxicity : ~~5~~X SureSelect Fragmentation Buffer No known significant effects or critical hazards.
 SureSelect Fragmentation Enzyme No known significant effects or critical hazards.

Numerical measures of 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 Fragmentation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
5 X SureSelect Fragmentation Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect Fragmentation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Fragmentation Enzyme Glycerol	-1.76	-	Low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Section 15. Regulatory information

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.
New Zealand	: Not determined.
United States	: All components are active or exempted.

Section 16. Any other relevant information

[History](#)

Date of issue/Date of revision : 30/06/2023


Date of previous issue : 24/02/2020

Version : 2

Key to abbreviations :

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

[Procedure used to derive the classification](#)

Classification	Justification
 SureSelect Fragmentation Enzyme SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

 Indicates information that has changed from previously issued version.

[Notice to reader](#)

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