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SAFETY DATA SHEET



Agilent High Sensitivity Protein 250 Reagents

Section 1. Identification

Product identifier	: 🗚 gilent High Sensitivity Protein 250 Re	Rilent High Sensitivity Protein 250 Reagents	
Part no. (chemical kit)	: 5067-1576	: 5067-1576	
Part no.	: Figh Sens Protein Reagents Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	Protein 250 Gel MatrixNot available.Protein 250 Destain SolutionNot available.	
Relevant identified uses of	<u>f the substance or mixture and uses advis</u>	ed against	
Identified uses	: Analytical reagent. Research and Development		
	Fotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	1 x 0.6 ml 1 x 0.150 ml 3 x 0.1 ml	
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770		
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300		

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements		
Signal word	Protein 250 Gel MatrixNo signal word.Protein 250 Destain SolutionNo signal word.Protein 250 Sample BufferNo signal word.	
Hazard statements	 Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer No known significant effects or critical has No known significant effec	azards.
Precautionary statements		
Prevention	Protein 250 Gel MatrixNot applicable.Protein 250 Destain SolutionNot applicable.Protein 250 Sample BufferNot applicable.	
Response	Protein 250 Gel MatrixNot applicable.Protein 250 Destain SolutionNot applicable.Protein 250 Sample BufferNot applicable.	
Storage	Protein 250 Gel MatrixNot applicable.Protein 250 Destain SolutionNot applicable.Protein 250 Sample BufferNot applicable.	
Disposal	Protein 250 Gel MatrixNot applicable.Protein 250 Destain SolutionNot applicable.Protein 250 Sample BufferNot applicable.	

Section 2. Hazard identification

Supplemental label elements	Pr	otein 250 Gel Matrix otein 250 Destain Solution otein 250 Sample Buffer	None known. None known. None known.
		otein 250 Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5%
	Pr	otein 250 Destain Solution	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5%
Other hazards which do not result in classification	Pr	otein 250 Gel Matrix otein 250 Destain Solution otein 250 Sample Buffer	None known. None known. None known.

Section 3. Composition/information on ingredients

Pro	tein 250 Gel Matrix Mixture tein 250 Destain Solution Mixture tein 250 Sample Buffer Mixture		
Ingredient name	Synonyms	% (w/w)	CAS number
Protein 250 Gel Matrix			
Trometamol	Tris	≥1 - ≤5	77-86-1
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥1 - ≤5	151-21-3
Protein 250 Destain Solution			
Trometamol	Tris	≥1 - ≤5	77-86-1
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥1 - ≤5	151-21-3

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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.

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: Protein 250 Gel Matrix	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.
	Protein 250 Destain Solution	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.
	Protein 250 Sample Buffer	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.

Section 4. First-aid measures

Inhalation	: Protein 250 Gel Matrix	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.
	Protein 250 Destain Solution	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.
	Protein 250 Sample Buffer	Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical
		attention if symptoms occur.
Skin contact	: Protein 250 Gel Matrix	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
	Protein 250 Destain Solution	medical attention if symptoms occur. Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	Protein 250 Sample Buffer	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
Ingestion	: Protein 250 Gel Matrix	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.
	Protein 250 Destain Solution	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.
	Protein 250 Sample 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	 Frotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	 Frotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	₱rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	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

Section 4. First-aid measures

Section 4.1 iist-a		liedSuleS	
Eye contact	:	♥rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No specific data. No specific data. No specific data.
Inhalation	:	♥rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No specific data. No specific data. No specific data.
Skin contact	:	♥rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No specific data. No specific data. No specific data.
Ingestion	:	Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No specific data. No specific data. No specific data.
Indication of immediate me	dical	l attention and special treatn	nent needed, if necessary
Notes to physician	:	Protein 250 Gel Matrix	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.
		Protein 250 Destain Solution	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.
		Protein 250 Sample Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	:	Protein 250 Gel Matrix	No action shall be taken involving any personal risk or without suitable training.
		Protein 250 Destain Solution	No action shall be taken involving any personal risk or without suitable training.
		Protein 250 Sample Buffer	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: Protein 250 Gel Matrix Use an extinguishing agent suitable for the surrounding fire.	
	Protein 250 Destain Solution Use an extinguishing agent suitable for the surrounding fire.	
	Protein 250 Sample Buffer Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing	: Protein 250 Gel Matrix None known.	
media	Protein 250 Destain Solution None known.	
	Protein 250 Sample Buffer None known.	
Specific hazards arising from the chemical	: Frotein 250 Gel Matrix In a fire or if heated, a pressure increase will occur and the container may burst.	
	Protein 250 Destain Solution In a fire or if heated, a pressure increase will occur and the container may burst.	
	Protein 250 Sample Buffer In a fire or if heated, a pressure increase will occur and the container may burst.	

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Protein 250 Gel Matrix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides material avides
	Protein 250 Destain Solution	metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	Protein 250 Sample Buffer	No specific data.
Special protective actions for fire-fighters	: Protein 250 Gel Matrix	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.
	Protein 250 Destain Solution	
	Protein 250 Sample 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.
Special protective equipment for fire-fighters	: Protein 250 Gel Matrix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Protein 250 Destain Solution	
	Protein 250 Sample Buffer	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	: P rotein 250 Gel Matrix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.		
	Protein 250 Destain Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.		
	Protein 250 Sample Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected		

Section 6. Accidental release measures

		personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	rotein 250 Gel Matrix ₽	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	Protein 250 Destain Solution	information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	Protein 250 Sample Buffer	information in "For non-emergency personnel". If specialized 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	: ₽ rotein 250 Gel Matrix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Protein 250 Destain Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Protein 250 Sample Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for con	tainment and cleaning up	
Methods for cleaning up	rotein 250 Gel Matrix	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.
	Protein 250 Destain Solution	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.
	Protein 250 Sample 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.



Section 7. Handling and storage

Precautions for safe handling	g	
Protective measures	: Protein 250 Gel Matrix	Put on appropriate personal protective equipment (see Section 8).
	Protein 250 Destain Solution	
	Protein 250 Sample Buffer	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: P rotein 250 Gel Matrix	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.
	Protein 250 Destain Solution	
	Protein 250 Sample 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.
Conditions for safe storage, including any incompatibilities	: Protein 250 Gel Matrix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	Protein 250 Destain Solution	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Data of iours/Data of raviaian	Protein 250 Sample 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 unlabeled

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/personal protection

Control parameters

Occupational exposure limits

None.

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	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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: 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.

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

Section 9. Physical and chemical properties and safety characteristics

Physical state : Protein 250 Get Matrix Protein 250 Bestain Solution Protein 250 Bestain Solution Protein 250 Bestain Solution Protein 250 Get Matrix Protein 250 Sample Buffer Not available. Not available. Odor : Protein 250 Get Matrix Protein 250 Get Matrix Protein 250 Get Matrix Protein 250 Sample Buffer Not available. Not available. Odor threshold : Protein 250 Get Matrix Protein 250 Bestain Solution Protein 250 Bestain Solution Protein 250 Bestain Solution Not available. Not available. pH : Protein 250 Get Matrix Protein 250 Bestain Solution Not available. Not available. protein 250 Bestain Solution Protein 250 Bestain Solution Not available. Not available. Protein 250 Bestain Solution Not available. Protein 250 Bestain Solution Protein 250 Bestain Solution Protein 250 Bestain Solution Not available. Not available. - Frotein 250 Get Matrix Protein 250 Get Matrix Protein 250 Get Matrix Sodium dodecyl Not available. - - Frotein 250 Get Matrix Protein 250 Get Matrix Protein 250 Get Matrix Protein 250 Get Matrix Protein 250 Bestain Solution Protein 250 B									
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Odor : Frotein 250 Destain Solution Not available. Protein 250 Destain Solution Not available. Not available. Protein 250 Gel Matrix Not available. Not available. pH : Frotein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Melting point/freezing point : Frotein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. - - - Sodium dodecyl 170 338 - - - - Sodium dodecyl	Color	:	Protein 250 Gel Matr Protein 250 Destain S	ix Solution	Not avail Not avail	able.			
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Ingredient name °C °F Method °C °F Method Protein 250 Gel Matrix Sodium dodecyl sulphate 170 338 - - - - Protein 250 Destain Solution 170 338 - - - - - Evaporation rate : Protein 250 Gel Matrix sulphate Not available. Not available. - - - Evaporation rate : Protein 250 Gel Matrix sulphate Not available. Not available. - - - Flammability : Protein 250 Gel Matrix Protein 250 Gel Matrix Not available. Not available. - - Flammability : Protein 250 Gel Matrix Protein 250 Sample Buffer Not available. - - - Lower and upper explosion Imit/flammability limit : Protein 250 Gel Matrix Protein 250 Sample Buffer Not available. - - Vapor pressure : Ingredient name mm Hg KPa Method mm Hg		:	Protein 250 Destain	Solution	Not avail	able.			
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	Vapor pressure	4		Vapo	r Pressu	re at 20°C	Vap	or pressu	ire at 50°C
Date of issue/Date of revision : 05/20/2024 Date of previous issue : 09/03/2020 Version : 8 9/18			Ingredient name	mm Hg	kPa	Method		kPa	Method
Date of issue/Date of revision : 05/20/2024 Date of previous issue : 09/03/2020 Version : 8 9/18									
	Date of issue/Date of revision		: 05/20/2024 Date of p	previous is	sue	: 09/03/2020		Version	:8 9/18

Section 9. Physical and chemical properties and safety characteristics

		Protein 250 Gel Matrix							
		water	17.5	2.3	-		92.258	12.3	-
		Protein 250 Destain Solution							
		water	17.5	2.3	-		92.258	12.3	-
		Sodium dodecyl sulphate	≤0.0013501	≤0.00018	-		-	-	-
		Protein 250 Sample Buffer							
		water	17.5	2.3	-		92.258	12.3	-
Relative vapor density	:	Protein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution Buffer	Not avail Not avail Not avail	able.			-	
Relative density	:	Protein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution	Not avail Not avail Not avail	able.				
Solubility(ies)	4	Media			R	esult			
		Protein 250 Gel Mat water Protein 250 Destain water Protein 250 Sample water	Solutio	ı	So	luble luble luble			
Partition coefficient: n- octanol/water	:	Protein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution	Not appli Not appli Not appli	cable				
Auto-ignition temperature	1	Ingredient name		°C		°F	N	lethod	
		Protein 250 Gel Ma	trix						
		Sodium dodecyl sulp		310.5		590.9	V	DI 2263	
		Protein 250 Destair	n Solutio	n					
		Sodium dodecyl sulp	ohate	310.5		590.9	V	DI 2263	
Decomposition temperature	:	Protein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution	Not avail Not avail Not avail	able.				
Viscosity	:	Protein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution	Not avail Not avail Not avail	able.				
Particle characteristics									
Median particle size	-	▶ Frotein 250 Gel Matr Protein 250 Destain S Protein 250 Sample I	Solution	Not appli Not appli Not appli	cable				

Section 10. Stabil	ity and reactivity
Reactivity	: P rotein 250 Gel Matrix No specific test data related to reactivity available for this product or its ingredients.
	Protein 250 Destain Solution No specific test data related to reactivity available for this product or its ingredients.
	Protein 250 Sample Buffer No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Protein 250 Gel Matrix The product is stable.
	Protein 250 Destain Solution The product is stable. Protein 250 Sample Buffer The product is stable.
Possibility of hazardous reactions	: Protein 250 Gel Matrix Under normal conditions of storage and use, hazardous reactions will not occur.
reactions	Protein 250 Destain Solution Under normal conditions of storage and use,
	hazardous reactions will not occur. Protein 250 Sample Buffer Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Protein 250 Gel Matrix No specific data.
	Protein 250 Destain Solution No specific data. Protein 250 Sample Buffer No specific data.
Incompatible materials	: Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer May react or be incompatible with oxidizing materials May react or be incompatible with oxidizing materials
Hazardous decomposition products	: Protein 250 Gel Matrix Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein 250 Destain Solution Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein 250 Sample Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Protein 250 Gel Matrix				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Protein 250 Destain				
Solution				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

Irritation/Corrosion

Section 11. Toxicu	nogical informat				
Product/ingredient name	Result	Species	Score	Exposure	Observation
Protein 250 Gel Matrix					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	_	500 mg	_
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	_	250 ug	_
	Eyes - Moderate irritant	Rabbit		10 mg	
			-		-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Skin - Mild irritant	Guinea pig	-	mg 24 hours 25 mg	-
	Skin - Mild irritant	Guinea pig	-	336 hours 25250 ppm	-
	Skin - Mild irritant	Human	-	48 hours 5 %	_
	Skin - Mild irritant	Rabbit		24 hours 50	_
	Skin - Moderate irritant			mg 24 hours 25	-
		Mouse	-	mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
	Skin - Severe irritant	Guinea pig	-	48 hours 25250 ppm	-
	Skin - Severe irritant	Guinea pig	-	72 hours 25250 ppm	-
	Skin - Severe irritant	Human	-	24 hours 10 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2.5 %	-
Protein 250 Destain Solution					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit		500 mg	
Sadium dadaay ay labata			-		-
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Mild irritant	Guinea pig	-	336 hours 25250 ppm	-
	Skin - Mild irritant	Human	-	48 hours 5 %	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
	Skin - Severe irritant	Guinea pig	-	48 hours 25250 ppm	-
	Skin - Severe irritant	Guinea pig	-	72 hours 25250 ppm	-
	Skin - Severe irritant	Human	-	24 hours 10 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2.5 %	-
Sonaitization	1	-	_ 		Į

Sensitization

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 toxi	<u>city (single exposure)</u>

Name	Category	Route of exposure	Target organs
Protein 250 Gel Matrix			
Trometamol	Category 3	-	Respiratory tract irritation
Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
Protein 250 Destain Solution			
Trometamol	Category 3	-	Respiratory tract irritation
Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	✓rotein 250 Gel Matrix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		Protein 250 Destain Solution	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		Protein 250 Sample Buffer	Not available.
Potential acute health effects			
Eye contact	-	✔rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	:	✔rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	-	✔rotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	:	Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. 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	: Protein 250 Gel Matrix	No specific data.
-	Protein 250 Destain Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.

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: Frotein 250 Gel Matrix	No specific data.
Protein 250 Destain Solution	No specific data.
Protein 250 Sample Buffer	No specific data.
: Frotein 250 Gel Matrix	No specific data.
Protein 250 Destain Solution	No specific data.
Protein 250 Sample Buffer	No specific data.
: Protein 250 Gel Matrix Protein 250 Destain Solution	No specific data. No specific data.
Protein 250 Sample Buffer	No specific data.
	 Protein 250 Destain Solution Protein 250 Sample Buffer Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer Protein 250 Gel Matrix Protein 250 Destain Solution

Delayed and immediate effects and also 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 effe	Potential chronic health effects				
General	:	Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.		
Carcinogenicity	:	Protein 250 Gel Matrix Protein 250 Destain Solution	No known significant effects or critical hazards. No known significant effects or critical hazards.		

Protein 250 Sample Buffer

Protein 250 Sample Buffer

Protein 250 Destain Solution

Protein 250 Destain Solution

Protein 250 Sample Buffer

: Protein 250 Gel Matrix

: Protein 250 Gel Matrix

Numerical measures of toxicity

Acute toxicity estimates

Reproductive toxicity

Mutagenicity

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Protein 250 Gel Matrix Protein 250 Gel Matrix Sodium dodecyl sulphate	128805.2 1288	N/A N/A	N/A N/A	N/A N/A	132.9 1.5
Protein 250 Destain Solution Protein 250 Destain Solution Sodium dodecyl sulphate	128800.1 1288	N/A N/A	N/A N/A	N/A N/A	150.0 1.5

Other information

: Protein 250 Gel Matrix

Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

No known significant effects or critical hazards.

Toxicity

Product/ingredient name	Result	Species	Exposure
Protein 250 Gel Matrix			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 μg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> 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 - <i>Pseudosida</i> <i>ramosa</i> - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days
Protein 250 Destain Solution			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> 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 - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/I Fresh water	Crustaceans - <i>Pseudosida</i> <i>ramosa</i> - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Protein 250 Gel Matrix				
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days	20 mg/l	-
Protein 250 Destain Solution				
Trometamol	OECD 301F Ready Biodegradability - Manometric	97.1 % - Readily - 28 days	30 mg/l	-
Date of issue/Date of revision	: 05/20/2024	ate of previous issue : 09/03	3/2020	Version : 8 15/1

Ecological information -----

Section 12. Ecological information					
Sodium dodecyl sulphate	Respirometry Test OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28	days	20 mg/l	-
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
Protein 250 Gel Matrix Trometamol Sodium dodecyl sulphate	-				Readily Readily
Protein 250 Destain Solution Trometamol Sodium dodecyl sulphate	-		-		Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Frotein 250 Gel Matrix Trometamol	-2.31	_	Low
Sodium dodecyl sulphate	-2.03	-	Low
Protein 250 Destain			
Solution			
Trometamol Sodium dodecyl sulphate	-2.31 -2.03	-	Low Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA	: Not regulated.
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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 : Not available. to IMO instruments

Section 15. Regulatory information

Canadian lists

United States

<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
CEPA Toxic substances	: None of the components are listed.
International regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed	
Not listed.	
Stockholm Convention on	Persistent Organic Pollutants
Not listed.	-
Rotterdam Convention on I	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol or	POPs and Heavy Motals
	rors and neavy metals
Not listed.	
Inventory list	
Canada	: Not determined.

: Not determined.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 05/20/2024
Date of previous issue	: 09/03/2020
Version	: 8
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = Internediate 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 UN = United Nations

Procedure used to derive the classification

Agilent High Sensitivity Protein 250 Reagents		
Section 16. Other information		
Classification Justification		
Not classified.		

✓ Indicates information that has changed from previously issued version.

Notice to reader

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