

SAFETY DATA SHEET

Agilent High Sensitivity Protein 250 Reagents, Part Number 5067-1576

Section 1. Identification

Product identifier : Agilent High Sensitivity Protein 250 Reagents, Part Number 5067-1576
Part no. (chemical kit) : 5067-1576
Part no. : High Sens Protein Reagents G2938-85000
 Protein 250 Gel Matrix Not available.
 Protein 250 Destaining Solution Not available.
 Protein 250 Sample Buffer Not available.

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

Material uses : Analytical reagent.
 Research and Development
 Protein 250 Gel Matrix 1 x 0.6 ml
 Protein 250 Destaining Solution 1 x 0.150 ml
 Protein 250 Sample Buffer 3 x 0.1 ml

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

Protein 250 Gel Matrix
 H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Protein 250 Destaining Solution
 H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Protein 250 Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5%
Protein 250 Destaining Solution	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5%

GHS label elements

Hazard pictograms : Protein 250 Gel Matrix



Protein 250 Destaining Solution



Section 2. Hazard(s) identification

Signal word	: Protein 250 Gel Matrix	WARNING
	Protein 250 Destaining Solution	WARNING
	Protein 250 Sample Buffer	No signal word.
Hazard statements	: Protein 250 Gel Matrix	H319 - Causes serious eye irritation.
	Protein 250 Destaining Solution	H319 - Causes serious eye irritation.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Protein 250 Gel Matrix	P280 - Wear eye or face protection.
	Protein 250 Destaining Solution	P280 - Wear eye or face protection.
	Protein 250 Sample Buffer	Not applicable.
Response	: Protein 250 Gel Matrix	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.
	Protein 250 Destaining Solution	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.
	Protein 250 Sample Buffer	Not applicable.
Storage	: Protein 250 Gel Matrix	Not applicable.
	Protein 250 Destaining Solution	Not applicable.
	Protein 250 Sample Buffer	Not applicable.
Disposal	: Protein 250 Gel Matrix	Not applicable.
	Protein 250 Destaining Solution	Not applicable.
	Protein 250 Sample Buffer	Not applicable.
Supplemental label elements		
Additional warning phrases	: Protein 250 Gel Matrix	Not applicable.
	Protein 250 Destaining Solution	Not applicable.
	Protein 250 Sample Buffer	Not applicable.
Other hazards which do not result in classification	: Protein 250 Gel Matrix	None known.
	Protein 250 Destaining Solution	None known.
	Protein 250 Sample Buffer	None known.

Section 3. Composition and ingredient information

Substance/mixture	: Protein 250 Gel Matrix	Mixture
	Protein 250 Destaining Solution	Mixture
	Protein 250 Sample Buffer	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Protein 250 Gel Matrix Sodium dodecyl sulphate	≤2.4	151-21-3
Protein 250 Destaining Solution Sodium dodecyl sulphate	≤2.4	151-21-3

Section 3. Composition and ingredient information

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

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. Continue to rinse for at least 10 minutes. Get medical attention.
	Protein 250 Destaining Solution	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.
	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.
Inhalation	: Protein 250 Gel Matrix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Protein 250 Destaining Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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 medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Protein 250 Destaining Solution	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.
	Protein 250 Sample Buffer	Flush contaminated skin with plenty of water.

Section 4. First aid measures

Ingestion	: Protein 250 Gel Matrix	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Protein 250 Destaining Solution	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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.
	Protein 250 Sample Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	Causes serious eye irritation. Causes serious eye irritation.
Inhalation	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: Protein 250 Gel Matrix	Adverse symptoms may include the following: pain or irritation watering redness
	Protein 250 Destaining Solution	Adverse symptoms may include the following: pain or irritation watering redness
	Protein 250 Sample Buffer	No specific data.
Inhalation	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.
Skin contact	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.
Ingestion	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.

Indication of immediate medical attention and special treatment 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 Destaining 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	No specific treatment.
	Protein 250 Destaining Solution	No specific treatment.
	Protein 250 Sample Buffer	No specific treatment.
Protection of first-aiders	: Protein 250 Gel Matrix	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.
	Protein 250 Destaining Solution	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.
	Protein 250 Sample Buffer	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: Protein 250 Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
	Protein 250 Destaining Solution	Use an extinguishing agent suitable for the surrounding fire.
	Protein 250 Sample Buffer	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

Unsuitable extinguishing media	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	None known. None known. None known.
Specific hazards arising from the chemical	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	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 thermal decomposition products	: Protein 250 Gel Matrix Protein 250 Destaining Solution Protein 250 Sample Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides No specific data.
Special protective actions for fire-fighters	: Protein 250 Gel Matrix Protein 250 Destaining 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. 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. 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 Protein 250 Destaining 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

Section 6. Accidental release measures

For non-emergency personnel

: Protein 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Protein 250 Destaining 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders

: Protein 250 Gel Matrix

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".

Protein 250 Destaining Solution

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".

Protein 250 Sample 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".

Environmental precautions

: Protein 250 Gel Matrix

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).

Protein 250 Destaining Solution

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).

Protein 250 Sample 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).

Methods and material for containment and cleaning up

Methods for cleaning up

: Protein 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 Destaining 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.

Section 6. Accidental release measures

Protein 250 Sample Buffer

disposal container. Dispose of via a licensed waste disposal contractor.

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

: Protein 250 Gel Matrix

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.

Protein 250 Destaining Solution

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.

Protein 250 Sample Buffer

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Protein 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 Destaining Solution

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

Section 7. Handling and storage

Protein 250 Destaining Solution

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.

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 unlabelled 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

None.

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: 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.

Section 8. Exposure controls and personal protection

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

Appearance

Physical state	Protein 250 Gel Matrix	Liquid.
	Protein 250 Destaining Solution	Liquid.
	Protein 250 Sample Buffer	Liquid.
Colour	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Odour	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Odour threshold	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
pH	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Melting point	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	0°C (32°F)
Boiling point	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	100°C (212°F)
Flash point	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Evaporation rate	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Flammability (solid, gas)	Protein 250 Gel Matrix	Not applicable.
	Protein 250 Destaining Solution	Not applicable.
	Protein 250 Sample Buffer	Not applicable.
Lower and upper explosive (flammable) limits	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Vapour pressure	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Vapour density	Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.

Section 9. Physical and chemical properties

Relative density	: Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Solubility	: Protein 250 Gel Matrix	Easily soluble in the following materials: cold water and hot water.
	Protein 250 Destaining Solution	Easily soluble in the following materials: cold water and hot water.
	Protein 250 Sample Buffer	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Auto-ignition temperature	: Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Decomposition temperature	: Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.
Viscosity	: Protein 250 Gel Matrix	Not available.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.

Section 10. Stability and reactivity

Reactivity	: Protein 250 Gel Matrix	No specific test data related to reactivity available for this product or its ingredients.
	Protein 250 Destaining 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 Destaining 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.
	Protein 250 Destaining 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 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.
Incompatible materials	: Protein 250 Gel Matrix	May react or be incompatible with oxidising materials.
	Protein 250 Destaining Solution	May react or be incompatible with oxidising materials.
	Protein 250 Sample Buffer	May react or be incompatible with oxidising materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: Protein 250 Gel Matrix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein 250 Destaining 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Protein 250 Gel Matrix Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Protein 250 Destaining Solution Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Protein 250 Gel Matrix Sodium dodecyl sulphate	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	-
Protein 250 Destaining Solution Sodium dodecyl sulphate	Skin - Moderate irritant	Rabbit	-	24 hours 25 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	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Section 11. Toxicological information

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Protein 250 Gel Matrix Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
Protein 250 Destaining Solution 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 : Protein 250 Gel Matrix Routes of entry anticipated: Oral, Dermal, Inhalation.
 Protein 250 Destaining Solution Routes of entry anticipated: Oral, Dermal, Inhalation.
 Protein 250 Sample Buffer Not available.

Potential acute health effects

Eye contact : Protein 250 Gel Matrix Causes serious eye irritation.
 Protein 250 Destaining Solution Causes serious eye irritation.
 Protein 250 Sample Buffer No known significant effects or critical hazards.

Inhalation : Protein 250 Gel Matrix No known significant effects or critical hazards.
 Protein 250 Destaining Solution No known significant effects or critical hazards.
 Protein 250 Sample Buffer No known significant effects or critical hazards.

Skin contact : Protein 250 Gel Matrix No known significant effects or critical hazards.
 Protein 250 Destaining Solution No known significant effects or critical hazards.
 Protein 250 Sample Buffer No known significant effects or critical hazards.

Ingestion : Protein 250 Gel Matrix No known significant effects or critical hazards.
 Protein 250 Destaining Solution No known significant effects or critical hazards.
 Protein 250 Sample Buffer No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Protein 250 Gel Matrix Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
 Protein 250 Destaining Solution Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
 Protein 250 Sample Buffer No specific data.

Section 11. Toxicological information

Inhalation	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.
Skin contact	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	No specific data.
Ingestion	: Protein 250 Gel Matrix	No specific data.
	Protein 250 Destaining Solution	No specific data.
	Protein 250 Sample Buffer	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	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Carcinogenicity	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Mutagenicity	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Teratogenicity	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Developmental effects	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.
Fertility effects	: Protein 250 Gel Matrix	No known significant effects or critical hazards.
	Protein 250 Destaining Solution	No known significant effects or critical hazards.
	Protein 250 Sample Buffer	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Protein 250 Gel Matrix Protein 250 Gel Matrix Sodium dodecyl sulphate	128805.2 1288	26376 300	N/A N/A	N/A N/A	N/A N/A
Protein 250 Destaining Solution Protein 250 Destaining Solution Sodium dodecyl sulphate	128800.1 1288	30000 300	N/A N/A	N/A N/A	N/A N/A

Other information	: Protein 250 Gel Matrix	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
	Protein 250 Destaining Solution	Not available.
	Protein 250 Sample Buffer	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Protein 250 Gel Matrix 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	
Protein 250 Destaining Solution 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	

Persistence and degradability

Not available.

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Protein 250 Gel Matrix Sodium dodecyl sulphate	-2.03	-	low
Protein 250 Destaining Solution Sodium dodecyl sulphate	-2.03	-	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. Empty containers or liners may retain some product residues. Avoid dispersal of spill 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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Section 15. Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Any other relevant information


History

Date of issue/Date of revision	: 03/09/2020
Date of previous issue	: 30/10/2017
Version	: 7

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
 Protein 250 Gel Matrix SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
Protein 250 Destaining Solution SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method

References : Not available.

 Indicates information that has changed from previously issued version.

Notice to reader

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