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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 | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---|-----------------------------------------------|----------------|------------------------|----------------|-----|-----------|-------------|
| Color : Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Gel Matrix Protein 250 Gel Matrix Sodium dodecyl sulphate Not available. Not available. Not available. Evaporation rate Protein 250 Gel Matrix Protein 250 Gel Matrix Sodium dodecyl Sulphate Not available. Not | Physical state | : | Protein 250 Destain | Solution | Liquid. | | | | |
| 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. | | | |
| Odor threshold : Fotein 250 Gel Matrix. Protein 250 Sample Buffer Not available. Not available. pH : Fotein 250 Gel Matrix Protein 250 Gel Matrix. Protein 250 Gel Matrix. Sodium dodecyl Not available. Protein 250 Gel Matrix. Protein 250 Gel Matrix. Protein 250 Gel Matrix. Protein 250 Gel Matrix. Sodium dodecyl Not available. Protein 250 Gel Matrix. Protein 250 G | Odor | : | Protein 250 Gel Matr Protein 250 Destain S | ix Solution | Not avail Not avail | able. able. | | | |
| Protein 250 Destain Solution Not available. Melting point/freezing point : Frotein 250 Gel Matrix Not available. Protein 250 Destain Solution Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Protein 250 Destain Solution 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 Sodium dodecyl 170 338 - - - Sodium dodecyl 170 338 - - - - - Protein 250 Destain Solution Sodium dodecyl 170 338 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | Odor threshold | : | Protein 250 Gel Matr Protein 250 Destain S | ix Solution | Not avail | able. | | | |
| Protein 250 Destain Solution Not available. Boiling point, initial boiling point, and boiling range ? Fotein 250 Gel Matrix Protein 250 Destain Solution Ingredient name Not available. Not available. Flash point : Closed cup Open cup Ingredient name °C °F Method °C °F Protein 250 Gel Matrix Ingredient name °C °F Method °C °F Protein 250 Gel Matrix Ingredient name °C °F Method °C °F Protein 250 Gel Matrix Ingredient name °C °F Method °C °F Protein 250 Destain Solution Sodium dodecyl sulphate 170 338 - - - Evaporation rate : Protein 250 Gel Matrix Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Not available. Flammability : Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Not available. Fotein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Not available. Not available. Not available. Fotein 250 Gel Matrix Not available. Protein 250 Gel Matrix Not available. Not available. Not available. Not available. Fotein 250 Gel Matrix Not available. Protein 250 Gel Ma | рН | : | Protein 250 Destain | Solution | Not avail | able. | | | |
| point, and boiling range Protein 250 Destain Solution Not available. Flash point : Closed cup Open cup Ingredient name °C °F Method °C °F Method Flash point : : Closed cup Open cup Ingredient name °C °F Method °C °F Method Flash point : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : <th>Melting point/freezing point</th> <th>:</th> <th>Protein 250 Destain</th> <th>Solution</th> <th>Not avail</th> <th>able.</th> <th></th> <th></th> <th></th> | Melting point/freezing point | : | Protein 250 Destain | Solution | Not avail | able. | | | |
| 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. | | | |
| Protein 250 Gel Matrix 170 338 - - - Sodium dodecyl sulphate 170 338 - - - Protein 250 Destain Solution Sodium dodecyl sulphate 170 338 - - - Evaporation rate Protein 250 Gel Matrix Protein 250 Destain Solution Not available. Not available. Protein 250 Gel Matrix Not available. Not available. Flammability Protein 250 Gel Matrix Protein 250 Destain Solution Not available. Not available. Protein 250 Destain Solution Not available. Not available. Protein 250 Destain Solution Lower and upper explosion Ilmit/flammability limit Protein 250 Gel Matrix Protein 250 Destain Solution Not available. Protein 250 Destain Solution Vapor pressure Ingredient name mm Hg KPa Method Ingredient name mm Hg KPa Method Hg | Flash point | 4 | | | Closed | cup | | Open | cup |
| Matrix Sodium dodecyl sulphate170338Protein 250 Destain SolutionProtein 250 Sodium dodecyl sulphate170338Evaporation rateProtein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Destain SolutionNot available. Not available. Protein 250 Sample Buffer Not available. Protein 250 Sample Buffer Not available. Protein 250 Sample Buffer Not available. Protein 250 Sample Buffer Not available. Protein 250 Destain Solution Not available. Protein 250 Sample Buffer Not available. Protein 250 Destain Solution Not available. Protein 250 Destain Solution Not available. Protein 250 Sample Buffer Not available. Protein 250 Sample Buffer Not available.Vapor pressure at 50°CVapor pressureIngredient namemm HgKPaMethodHgMethodIngredient namemm HgkPaMethodHgImmImmIngredient namemm HgkPaImmImmImmImmIngredient namemm HgkPaImmImmImmImmIngredient namemm HgkPaImmImmImmImmIngredient namemm HgkPaImmImm <t< th=""><th></th><th></th><th>Ingredient name</th><th>°C</th><th>°F</th><th>Method</th><th>°C</th><th>°F</th><th>Method</th></t<> | | | Ingredient name | °C | °F | Method | °C | °F | Method |
| sulphate Protein 250 Destain Solution Sodium dodecyl sulphate Sodium dodecyl sulphate 170 338 Evaporation rate Protein 250 Gel Matrix Protein 250 Destain Solution Not available. Protein 250 Destain Solution Not available. Protein 250 Gel Matrix Protein 250 Gel Matrix Not available. Protein 250 Sample Buffer Not available. Protein 250 Gel Matrix Protein 250 Gel Matrix Not applicable. Protein 250 Gel Matrix Protein 250 Gel Matrix Not applicable. Protein 250 Gel Matrix Protein 250 Gel Matrix Protein 250 Gel Matrix Protein 250 Gel Matrix Not available. Protein 250 Gel Matrix Protein 250 Sample Buffer Not available. Lower and upper explosion limit/flammability limit Protein 250 Gel Matrix Protein 250 Gel Matrix Protein 250 Sample Buffer Not available. Vapor pressure Imgredient name mm Hg KPa Method Vapor pressure Imgredient name mm Hg KPa Method mm Hg KPa Method | | | | | | | | | |
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| Evaporation rate sulphate image: sulphate image: sulphate Evaporation rate image: sulphate image: sulphate image: sulphate Flammability image: sulphate image: sulphate image: sulphate image: sulphate Flammability image: sulphate image: sulphate image: sulphate image: sulphate Flammability image: sulphate image: sulphate image: sulphate image: sulphate Lower and upper explosion limit/flammability limit image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate image: sulphate image: sulphate Vapor pressure image: sulphate image: sulphate image: sulphate | | | | | | | | | |
| Flammability Protein 250 Destain Solution Protein 250 Sample Buffer Not available. Not available. Flammability Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer Not applicable. Not applicable. Not available. Lower and upper explosion limit/flammability limit Protein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Destain Solution Protein 250 Sample Buffer Not available. Not available. Vapor pressure Imgredient name Vapor Pressure at 20°C Vapor pressure at 50°C Ingredient name mm Hg kPa Method Hg Hg Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name Imgredient name | | | sulphate | | | - | - | - | - |
| Protein 250 Destain Solution Protein 250 Sample Buffer Not applicable. Not applicable. Lower and upper explosion limit/flammability limit Frotein 250 Gel Matrix Protein 250 Destain Solution Protein 250 Sample Buffer Not available. Not available. Vapor pressure Ingredient name Wapor Pressure at 20°C Vapor pressure at 50°C Ingredient name mm Hg KPa Method Hg Hg Ingredient name Ingredient name Ingredient name Ingredient name Ingredient name | Evaporation rate | : | Protein 250 Destain | Solution | Not avail | able. | | | |
| limit/flammability limit Protein 250 Destain Solution Not available. Vapor pressure Vapor Pressure at 20°C Vapor pressure at 50°C Ingredient name mm Hg kPa Method mm Hg kPa Method mg kPa Method | Flammability | : | Protein 250 Destain | Solution | Not appli | icable. | | | |
| Ingredient name mm Hg kPa Method mm kPa Method Ingredient name Imgredient namgredient name Imgredient name Imgredie | | : | Protein 250 Destain | Solution | Not avail | able. | | | |
| | 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. |

| • | |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| : 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. |
|-------------------|------------------|
|-------------------|------------------|

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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