### SDS Kit Cover Sheet

**Colorimetric Sandwich ELISA Kit**

Catalog Number: KEXXXXX

(“XXXXX” = Any number combination)

<table>
<thead>
<tr>
<th>Component</th>
<th>Composition</th>
<th>Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibody Coated Microwells</td>
<td>Contains particular dry antibodies</td>
<td>2-4</td>
</tr>
<tr>
<td>Standards</td>
<td>Contains particular recombinant proteins; Proclin300 &lt;0.05%</td>
<td>5-7</td>
</tr>
<tr>
<td>Detection Antibody (100x)</td>
<td>Contains particular antibodies; Proclin300 &lt;0.05%</td>
<td>8-10</td>
</tr>
<tr>
<td>HRP-conjugated antibody (100x)</td>
<td>Contains secondary antibody; Proclin300 &lt;0.05%</td>
<td>11-13</td>
</tr>
<tr>
<td>Sample Diluent</td>
<td>Sodium Phosphate, Dibasic &lt;1%; Proclin300 &lt;0.05%</td>
<td>14-16</td>
</tr>
<tr>
<td>Detection Diluent</td>
<td>Sodium Phosphate, Dibasic &lt;1%; BSA &lt;0.25%, Proclin300 &lt;0.05%</td>
<td>17-19</td>
</tr>
<tr>
<td>Wash Buffer Concentrate (20x)</td>
<td>Sodium Phosphate, Dibasic &lt;1%; Proclin300 &lt;0.05%</td>
<td>20-22</td>
</tr>
<tr>
<td>Tetramethylbenzidine Substrate (TMB)</td>
<td>Contains &lt;0.06% TMP (3,5,3’5’-tetramethylbenzidine)</td>
<td>23-25</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>Contains &lt;10% sulphuric acid</td>
<td>26-28</td>
</tr>
<tr>
<td>Plate Cover Seals</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Antibody Coated Microwells
Chemical Name: Not applicable

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Environmental Hazards: Not hazardous

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:
The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

<table>
<thead>
<tr>
<th>General Advice</th>
<th>Consult a physician. Show this Safety Data Sheet to the doctor in attendance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Wash out mouth with water. 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 water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

5. FIRE FIGHTING MEASURES:


Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency respondents: 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: 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 containment and cleaning up: Small spill: 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.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as needed.

Most important symptoms/effects, acute, and delayed
Potential acute health effects
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure.

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure.

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialists immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Proteintech Group, USA,
5500 Pearl Street, Suite 400,
Rosemont, IL 60018, USA
+1-888-678-6522
f 1-312-4558408

Proteintech Europe,
4th Floor, 196 Deansgate, Manchester, M3 4WF
(+44)-161-83-91-007
f (+44)-161-24-13-103

San Ying Biotechnology, China,
D3-3, No.666 Gaoxin Avenue, Wuhan East Lake Hi-tech Development Zone, Wuhan, P.R.C.
86-27-87531627
f 86-27-87531627

www.ptglab.com
follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE:
Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Precautions for safe handling:
Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. EXPOSURE CONTROLS/PPE:
Control parameters:
Occupational exposure limits: Not available
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.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:
Physical state @ 40°C: Liquid
Odor: Not available.
P.H.: Not applicable
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Burning time: Not applicable.
Burning rate: Not applicable.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility: Not available.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY:
Reactivity: None known
Chemical stability: Hazardous reactions has not been reported.
Conditions to avoid: No information available.
Incompatible materials: None known

11. TOXICOLOGICAL INFORMATION:
Information on toxicity effects:
Acute toxicity: Not available
Irritation/Corrosion: Not available.
Sensitization: May cause sensitization of susceptible persons.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity (single exposure): Not available.
Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure
Aspiration hazard: Not available.
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated:
Oral, Dermal, Inhalation.
Potential acute health effects:
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause sensitization of susceptible persons.
Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.
Potential chronic health effects: Not available.
General: No known significant effects or critical hazards. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture
Substances of Very High Concern: None
Restricted substances under REACH 1907/2006, Annex XVII: None
Substances listed under Annex I of Regulation (EC) No 689/2008: None
Restricted substances under Annex V of Regulation (EC) No 689/2008: None
German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Standards
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous
Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:

The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

General Advice
Consult a physician. Show this Safety Data Sheet to the doctor in attendance.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.

Eye Contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
Wash out mouth with water. 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 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
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES:


Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: 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.

For emergency responders: 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: 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 containment and cleaning up: Small spill: 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.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as
follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. **HANDLING AND STORAGE:**

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8). Keep container tightly closed, and in a cool, well-ventilated area.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. **EXPOSURE CONTROLS/PPE:**

Control parameters:

Occupational exposure limits: Not available

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.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. **PHYSICAL AND CHEMICAL PROPERTIES:**

Physical state @ 40°C: Liquid

Odor: Not available.

pH: Not applicable

Melting point: Not available.

Boiling point: Not available.

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: Not available.

Solubility: Not available.

Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

10. **STABILITY AND REACTIVITY:**

Reactivity: None known

Chemical stability: Hazardous reactions has not been reported.

Conditions to avoid: No information available.

Incompatible materials: None known


11. **TOXICOLOGICAL INFORMATION:**

Information on toxicity effects:

Acute toxicity: Not available

Irritation/Corrosion: Not available.

Sensitization: May cause sensitization of susceptible persons.

Mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure.

Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated:

Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: May cause sensitization of susceptible persons.

Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture
Substances of Very High Concern: None

Restricted substances under REACH 1907/2006, Annex XVII: None
Substances listed under Annex I of Regulation (EC) No 689/2008: None

Restricted substances under Annex V of Regulation (EC) No 689/2008: None
German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022
The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Detection Antibody (100x)
Chemical Name: Not applicable

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous

Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Signal word: None
Hazard pictograms: None

Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:
The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

General Advice
Consult a physician. Show this Safety Data Sheet to the doctor in attendance.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.

Eye Contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
Wash out mouth with water. 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 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
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES:


Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: 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.

For emergency responders: 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: 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 containment and cleaning up:
Small spill: 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.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Page 8 of 28
Physical state @ 40°C: Liquid

Odor: Not applicable.

pH: Not applicable.

Melting point: Not applicable.

Physical and chemical properties:

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling point: Not available.

Flash point: Not available.

 Burning time: Not applicable.

 Burning rate: Not applicable.

 Evaporation rate: Not available.

 Flammability (solid, gas): Not available.

 Lower and upper explosive (flammable) limits: Not available.

 Vapor pressure: Not available.

 Vapor density: Not available.

 Relative density: Not available.

 Solubility: Not available.

 Partition coefficient: Not available.

 Auto-ignition temperature: Not available.

 Decomposition temperature: Not available.

 SADT: Not available.

 Viscosity: Not available.

 10. STABILITY AND REACTIVITY:

 Reactivity: None known.

 Chemical stability: Hazardous reactions has not been reported.

 Conditions to avoid: No information available.

 Incompatible materials: None known.


 11. TOXICOLOGICAL INFORMATION:

 Information on toxicity effects:

 Acute toxicity: Not available.

 Irritation/Corrosion: Not available.

 Sensitization: May cause sensitization of susceptible persons.

 Mutagenicity: Not available.

 Carcinogenicity: Not available.

 Reproductive toxicity: Not available.

 Teratogenicity: Not available.

 Specific target organ toxicity (single exposure): Not available.

 Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure.

 Aspiration hazard: Not available.

 Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

 Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

 Potential acute health effects:

 Eye contact: No known significant effects or critical hazards.

 Inhalation: No known significant effects or critical hazards.

 Skin contact: May cause sensitization of susceptible persons.

 Ingestion: May cause damage to kidneys with repeated exposure.

 Symptoms related to the physical, chemical, and toxicological characteristics:

 Eye contact: No specific data.

 Inhalation: No specific data.

 Skin contact: No specific data.

 Ingestion: No specific data.

 Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

 Potential chronic health effects: Not available.
15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture
Substances of Very High Concern: None
Restricted substances under REACH 1907/2006, Annex XVII: None
Substances listed under Annex I of Regulation (EC) No 689/2008: None
Restricted substances under Annex V of Regulation (EC) No 689/2008: None
German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022
The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name: HRP-conjugated antibody (100x)
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:
Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous
Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:
The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

<table>
<thead>
<tr>
<th>General Advice</th>
<th>Consult a physician. Show this Safety Data Sheet to the doctor in attendance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Wash out mouth with water. 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 water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

5. FIRE FIGHTING MEASURES:
Unsuitable extinguishing media: No information available

6. ACCIDENTAL RELEASE MEASURES:
Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: 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.
For emergency responders: 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: 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 containment and cleaning up:
Small spill: 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.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as appropriate.

Most important symptoms/effects, acute, and delayed
Potential acute health effects
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS
7. **HANDLING AND STORAGE:**

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8). Keep container tightly closed, and in a cool, well-ventilated area.

Precautions for safe handling:
- **Protective measures:** Put on appropriate personal protective equipment (see Section 8).
- **Advice on general occupational hygiene:** 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.

8. **EXPOSURE CONTROLS/PPE:**

- **Control parameters:**
  - Occupational exposure limits: Not available
  - 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 in case 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:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
    - **Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.**

9. **PHYSICAL AND CHEMICAL PROPERTIES:**

- **Physical state @ 40°C:** Liquid
- **Odor:** Not available.
- **pH:** Not applicable.
- **Melting point:** Not available.
- **Boiling point:** Not available.
- **Flash point:** Not available.
- **Burning time:** Not applicable.
- **Burning rate:** Not applicable.
- **Evaporation rate:** Not available.
- **Flammability (solid, gas):** Not available.
- **Lower and upper explosive (flammable) limits:** Not available.
- **Vapor pressure:** Not available.
- **Vapor density:** Not available.
- **Relative density:** Not available.
- **Solubility:** Not available.
- **Partition coefficient:** Not available.
- **Auto-ignition temperature:** Not available.
- **Decomposition temperature:** Not available.
- **SADT:** Not available.
- **Viscosity:** Not available.

10. **STABILITY AND REACTIVITY:**

- **Reactivity:** None known.
- **Chemical stability:** Hazardous reactions have not been reported.
- **Conditions to avoid:** No information available.
- **Incompatible materials:** None known.
- **Hazardous decomposition products:** Carbon oxides, nitrogen oxides (NOx), sulphur oxides.

11. **TOXICOLOGICAL INFORMATION:**

- **Information on toxicity effects:**
  - **Acute toxicity:** Not available.
  - **Irritation/Corrosion:** Not available.
  - **Sensitization:** May cause sensitization of susceptible persons.
  - **Mutagenicity:** Not available.
  - **Carcinogenicity:** Not available.
  - **Reproductive toxicity:** Not available.
  - **Teratogenicity:** Not available.
  - **Specific target organ toxicity (single exposure):** Not available.
  - **Specific target organ toxicity (repeated exposure):** Oral – May cause damage to kidneys through prolonged or repeated exposure.
  - **Aspiration hazard:** Not available.

- **Conclusion/Summary:** To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

- **Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.
- **Potential acute health effects:**
  - **Eye contact:** No known significant effects or critical hazards.
  - **Inhalation:** No known significant effects or critical hazards.
  - **Skin contact:** No specific data.
  - **Ingestion:** May cause damage to kidneys with repeated exposure.

- **Symptoms related to the physical, chemical, and toxicological characteristics:**
  - **Eye contact:** No specific data.
  - **Inhalation:** No specific data.
  - **Skin contact:** No specific data.
  - **Ingestion:** No specific data.

- **Delayed and immediate effects.** 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:** Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

- **Potential chronic health effects:** Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture
Substances of Very High Concern: None
Restricted substances under REACH 1907/2006, Annex XVII: None
Substances listed under Annex I of Regulation (EC) No 689/2008: None
Restricted substances under Annex V of Regulation (EC) No 689/2008: None
German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Sample Diluent
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous
Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:
The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

| General Advice | Consult a physician. Show this Safety Data Sheet to the doctor in attendance. |
| Skin Contact   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician. |
| Eye Contact    | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. |
| Inhalation     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Ingestion      | Wash out mouth with water. 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 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
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES:

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures:
For non-emergency personnel: 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.

For emergency responders: 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: 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 containment and cleaning up:
Small spill: 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.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as
follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE:
Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8). Keep container tightly closed, and in a cool, well-ventilated area.

Precautions for safe handling:
Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. EXPOSURE CONTROLS/PPE:
Control parameters:
Occupational exposure limits: Not available
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. Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:
Physical state @ 40°C: Liquid
Odor: Not applicable.
ph: Not applicable.
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Burning time: Not applicable.
Burning rate: Not applicable.
Evaporation rate: Not available.
Flammability: Not available.
Lower and upper explosive limits: Not available.
Explosive factors: Not applicable.
Density: Not available.
Relative density: Not available.
Solubility: Not available.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not applicable.

10. STABILITY AND REACTIVITY:
Reactivity: None known
Chemical stability: Hazardous reactions has not been reported.
Conditions to avoid: No information available.
Incompatible materials: None known
Hazardous decomposition products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

11. TOXICOLOGICAL INFORMATION:
Information on toxicity effects:
Acute toxicity: Not available
Irritation: Not available
Corrosion: Not available
Sensitization: May cause sensitization of susceptible persons.
Mutagenicity: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Teratogenicity: Not available
Specific target organ toxicity (single exposure): Not available
Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure
Aspiration hazard: Not available

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects:
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause sensitization of susceptible persons.
Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.
Potential chronic health effects: Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture
Substances of Very High Concern: None
Restricted substances under REACH 1907/2006, Annex XVII: None
Substances listed under Annex I of Regulation (EC) No 689/2008: None
Restricted substances under Annex V of Regulation (EC) No 689/2008: None
German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Detection Diluent
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous
Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:

The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

<table>
<thead>
<tr>
<th>General Advice</th>
<th>Consult a physician. Show this Safety Data Sheet to the doctor in attendance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Wash out mouth with water. 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 water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water spray. Carbon dioxide (CO2). Foam. Dry chemical

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: 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: 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 containment and cleaning up:
Small spill: Stop leak if without risk. Move containers from spill area.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spills into an effluent treatment plant or proceed as necessary.

Most important symptoms/effects, acute, and delayed
Potential acute health effects
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).
7. HANDLING AND STORAGE:

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. EXPOSURE CONTROLS/PPE:

Control parameters:

Occupational exposure limits: Not available

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. Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respiratory selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state @ 4°C: Liquid
Odor: Not available.
pH: Not applicable.
Melting point: Not available.

Boiling point: Not available.
Flash point: Not available.
 Burning time: Not applicable.
 Burning rate: Not applicable.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility: Not available.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY:

Reactivity: None known
Chemical stability: Hazardous reactions has not been reported.
Conditions to avoid: No information available.
Incompatible materials: None known

11. TOXICOLOGICAL INFORMATION:

Information on toxicity effects:

Acute toxicity: Not available
Irritation/Corrosion: Not available.
Sensitization: May cause sensitization of susceptible persons.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity (single exposure): Not available.
Specific target organ toxicity (repeated exposure): Oral – May case damage to kidneys through prolonged or repeated exposure
Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated:

Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No specific data.
Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern: None

Restricted substances under REACH 1907/2006, Annex XVII: None

Substances listed under Annex I of Regulation (EC) No 689/2008: None

Restricted substances under Annex V of Regulation (EC) No 689/2008: None


German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Wash Buffer Concentrate (20x)
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Physical hazards: Not hazardous
Health hazards: Not hazardous
Environmental Hazards: Not hazardous
Additional information: Not applicable

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary Statements: None

3. INGREDIENT COMPOSITION/INFORMATION:
The product contains no substances which at their given concentration are considered to be a health hazard.

4. FIRST AID MEASURES:

<table>
<thead>
<tr>
<th>General Advice</th>
<th>Consult a physician. Show this Safety Data Sheet to the doctor in attendance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, consult a physician.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Wash out mouth with water. 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 water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

5. FIRE FIGHTING MEASURES:

Unsuitable extinguishing media: No information available

Special protective actions for fire-fighters: Avoid dispersal of spilled material and the container may burst.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: 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.

For emergency responders: 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: 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 containment and cleaning up: Small spill: 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.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Proteintech Group, USA,
5500 Pearl Street, Suite 600,
Rosemont, IL 60018, USA
t:1-888-678-6522
f:1-312-4558408

Proteintech Europe,
4th Floor, 196 Deansgate, Manchester,
M3 2WF
(+44)-161-83-93-007
(+44)-161-24-13-103

San Ying Biotechnology, China,
D3-3, No.666 Gaoxin Avenue, Wuhan East Lake Hi-tech Development Zone, Wuhan, P.R.C.
186-27-87531629
f:86-27-87531627

www.ptglab.com

Page 20 of 28
Melting point: Not available.

pH: Not available.

Odor: Not available.

Physical state @ 40°C: Liquid

Boiling point: Not available.
Flash point: Not available.

Inhalation: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Oral – May case damage to kidneys through prolonged or repeated exposure.

Inhalation: No known significant effects or critical hazards.

Skin contact: May cause sensitization of susceptible persons.

Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
Contains no substances known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN Number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental Hazards: Not applicable
Special precautions for user: Not applicable

15. REGULATORY INFORMATION:
Safety, health, and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern: None

Restricted substances under REACH 1907/2006, Annex XVII: None

Substances listed under Annex I of Regulation (EC) No 689/2008: None

Restricted substances under Annex V of Regulation (EC) No 689/2008: None


German Water hazard classes (Wassergefährdungsklassen): Not classified

16. OTHER INFORMATION:
Reason for revision: Initial release of SDS
Revision number: 0
Revision: 5/20/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Tetramethylbenzidine Substrate (TMB)
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Acute Toxicity 4, Acute toxicity 2, Carcinogen 1A, Aquatic acute 1, Aquatic chronic 1
Acute Toxicity, 4, Skin Sensitizer, 1, Respiratory Sensitizer 1, Mutagenicity 2, Carcinogenicity 1B, Reproductive Toxicity 1B

Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:

Signal word: Warning
Hazard statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H341 - Suspected of causing genetic defects
H302 + H332 - Harmful if swallowed or if inhaled

Precautionary statements
P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P360 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

3. INGREDIENT COMPOSITION/INFORMATION:

Tetramethylbenzidine 54827-17-7 <0.06%

4. FIRST AID MEASURES:

General Advice
Consult a physician. Show this Safety Data Sheet to the doctor in attendance.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. Get medical attention if symptoms occur. If symptoms persist, consult a physician.

Eye Contact
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
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
Wash out mouth with water. 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 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
Skin contact: May cause sensitization of susceptible persons.

Over-exposure signs/symptoms
Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure.
Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
6. ACCIDENTAL RELEASE MEASURES:
Personal precautions, protective equipment, and emergency procedures:
For non-emergency personnel: 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.

For emergency responders: 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: 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 containment and cleaning up:
Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, 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. Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an efficient treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE:
Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Precautions for safe handling:
Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. EXPOSURE CONTROLS/PPE:
Control parameters:
Occupational exposure limits: Not available
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 ensured to 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.

Additional precautions for safe handling:
Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:
Physical state @ aOC: liquid
Odor: Not available.
pH: Not available.
Melting point: Not available.
Boiling point: Not available.
Flammability: Not available.
Solubility: Not available.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY:
Reactivity: None known
Chemical stability: Stable under normal conditions
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions has not been reported.
Conditions to avoid: No information available
Incompatible materials: Strong acids. Strong oxidizing agents.
Hazardous decomposition products: No data available

11. TOXICOLOGICAL INFORMATION:
Information on toxicity effects:
Acute toxicity: Not available
Irritation/Corrosion: Not available.
Sensitization: May cause sensitization of susceptible persons.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity (single exposure): Not available.
Specific target organ toxicity (repeated exposure): Not available.
Aspiration hazard: Not available.

Page 24 of 28
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:
- Eye contact: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Skin contact: May cause sensitization of susceptible persons.
- Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:
- Skin: No specific data.
- Ingestion: No specific data.
- Inhalation: No specific data.
- Skin contact: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may damage to kidneys.

Potential chronic health effects: Not available.
- General: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: No known significant effects or critical hazards.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
- Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
- No data available

13. DISPOSAL CONSIDERATIONS:
- 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.

14. TRANSPORT INFORMATION:
- IATA / ADR / DOT-US / IMDG

For lab use only, not for diagnostic or therapeutic work.
SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Stop Solution

Chemical Name: Not applicable

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]
Acute toxicity 4, Acute toxicity 2, Carcinogen 1A, Aquatic acute 1, Aquatic chronic 1
Acute Toxicity, 4, Skin Sensitizer, 1, Respiratory Sensitizer 1, Mutagenicity 2, Carcinogenicity 1B, Reproductive Toxicity 1B

Label elements
Labelling according to Regulation [EC] No 1272/2008 [CLP]

Hazard pictograms:

Signal word: Warning

Hazard statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H361 - Suspected of causing genetic defects
H302 + H332 - Harmful if swallowed or if inhaled

Precautionary statements
P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

3. INGREDIENT COMPOSITION/INFORMATION:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric Acid</td>
<td>7664-93-9</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES:

General Advice
Consult a physician. Show this Safety Data Sheet to the doctor in attendance.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

Eye Contact
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
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
Wash out mouth with water. 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 water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures:
For non-emergency personnel: 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. For emergency responders: 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: 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 containment and cleaning up:
Small spill: 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.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE:

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective equipment (Section 8). Keep container tightly closed, and in a cool, well-ventilated area.

Precautions for safe handling:
Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: 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.

8. EXPOSURE CONTROLS/PPE:

Control parameters:
Occupational exposure limits: Not available
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.
Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state @ a Oc: liquid
Odor: Not available.
pH: Not available.
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility: Not available.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY:

Reactivity: None known
Chemical stability: Stable under normal conditions
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions has not been reported.
Conditions to avoid: No information available
Incompatible materials: Strong acids. Strong oxidizing agents.
Hazardous decomposition products: No data available

11. TOXICOLOGICAL INFORMATION:

Information on toxicity effects:
Acute toxicity: Not available
Irritation/Corrosion: Not available.
Sensitization: May cause sensitization of susceptible persons.
Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity (single exposure): Not available.
Specific target organ toxicity (repeated exposure): Not available.
Aspiration hazard: Not available.

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Proteintech Group, USA,
5500 Pearl Street, Suite 400,
Rosemont, IL 60018, USA
Phone: 1-888-478-4522,
Fax: 1-312-455-8408

Proteintech Europe,
4th Floor, 196 Deansgate, Manchester,
M3 3WF
t:(+44)-161-83-93-007
(f(+44)-161-24-13-103

San Ying Biotechnology, China,
D1-3, No.666 Gaoxin Avenue, Wuhan East Lake
Hi-tech Development Zone, Wuhan, P.R.C.
t: 86-27-87531629
f: 86-27-87531627

www.ptglab.com
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects:
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause sensitization of susceptible persons.
Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Delayed and immediate effects. 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: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: Not available

12. ECOLOGICAL INFORMATION:
No data available

13. DISPOSAL CONSIDERATIONS:
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.

14. TRANSPORT INFORMATION:
IATA / ADR / DOT-US / IMDG

For lab use only, not for diagnostic or therapeutic work.