

**SDS KIT COVER SHEET**

**ChemBright Biotin Antibody Conjugation Kit**

Catalog Number: PK30033

<b>Component</b>	<b>Catalog No.</b>	<b>Page #</b>
Vial A: Antibody Modifier Reagent	PK3003X-A	2-4
Vial B: Lyophilized Biotin	PK30033-B	5-7
Storage Vial C (No SDS Required)	PK3003X-C	N/A
Quenching Reagent	PK3003X-Q	8-10

## SAFETY DATA SHEET (SDS)

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

Product Name: Vial A: Antibody Modifier Reagent  
Catalog Number: PK3003X-A

**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:

**OSHA HazCom (US):** Not classified as hazardous

**Regulation (EC) No 1272/2008 (CLP):** Not classified as hazardous

Physical hazards: Not hazardous

Health hazards: Not Hazardous

Environmental Hazards: Not Hazardous

Additional information: Not applicable

**Label elements**

Labelling according to OSHA and Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms: None

Signal word: None

Hazard statements: None

**Precautionary Statements: None**

### 3. INGREDIENT COMPOSITION/INFORMATION:

Ingredient	CAS No.	Purity	Classification
Dimethyl Sulfoxide	67-68-5	99.85%	Not Classified

This mixture does not contain substances classified as hazardous at or above reportable thresholds under US OSHA or EU CLP.

### 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 mild irritation. DMSO may increase skin absorption.

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 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 @ 20°C:** Lyophilized

**Odor:** Not available.

**pH:** Not available.

**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:** 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 oxidizing agents.

**Hazardous decomposition products:** No data available

## 11. TOXICOLOGICAL INFORMATION:

**Information on toxicology 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.

**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

Not classified as dangerous 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 EC 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

Substances under Regulation (EC) No 850/2004 of the European

Parliament and of the Council of 29 April 2004 on persistent organic

pollutants and amending Directive 79/117/EEC: None

German Water hazard classes (Wassergefährdungsklassen): Not

classified

US OSHA: None

**16. OTHER INFORMATION:**

Reason for revision: Initial release of SDS

Revision number: 0

Revision: 1/6/2026

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: Vial B : Lyophilized Biotin  
Catalog Number: PK30033-B

**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:

**OSHA HazCom (US):** Classified as hazardous  
**Regulation (EC) No 1272/2008 (CLP):** Classified as hazardous  
Hazard Classification (CLP)  
Reproductive toxicity, Category 1B  
Acute toxicity (inhalation), Category 4  
Specific target organ toxicity (repeated exposure), Category 2

#### Label elements

Labelling according to OSHA and Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



Signal word: Danger

Hazard statements:

H360D: May damage the unborn child

H332: Harmful if inhaled

H373: May cause damage to organs through prolonged or repeated exposure

#### Precautionary Statements:

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

P260: Do not breathe vapors

P280: Wear protective gloves, protective clothing, and eye protection

P308+P313: IF exposed or concerned: Get medical advice/attention

### 3. INGREDIENT COMPOSITION/INFORMATION:

DMAC	127-19-5	98.2%	Repr. 1B; Acute Tox. 4 (Inh); STOT RE 2
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### 4. FIRST AID MEASURES:

General Advice	Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
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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 for several minutes, 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:

Central nervous system effects, liver effects with repeated exposure.

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: Alcohol-resistant foam, dry chemical, CO<sub>2</sub>

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical:

Vapors may form explosive mixtures with air

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:

Evacuate area. Use PPE. Avoid inhalation of vapors.

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 fume hood. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area away from oxidizers. 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:

OSHA PEL: 10 ppm (skin)

EU OEL (indicative): 10 ppm (skin)

Appropriate engineering controls: Local exhaust 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 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 @ 20°C: lyophilized

Odor: Not available.

pH: Not available.

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: 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 oxidizing agents, acids

Hazardous decomposition products: Nitrogen oxides, carbon oxides

## 11. TOXICOLOGICAL INFORMATION:

Information on the likely routes of exposure:

Routes of entry anticipated: Inhalation, dermal, ingestion

Potential acute health effects:

Reproductive toxicity (DMAC)

Liver and systemic toxicity with repeated exposure

Numerical measures of toxicity

Acute toxicity estimates: Not available

## 12. ECOLOGICAL INFORMATION:

Harmful to aquatic organisms. Avoid environmental release.

## 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

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  
(Note: Despite health hazards, DMAC mixtures are not classified as dangerous goods for transport.)

#### 15. REGULATORY INFORMATION:

US OSHA HazCom: Hazardous

EU REACH:

DMAC is subject to reproductive toxicity controls

No SVHC present above reporting thresholds

EU CLP: Classified (Repr. 1B)

#### 16. OTHER INFORMATION:

Reason for revision: Initial release of SDS

Revision number: 0

Revision: 1/6/2026

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: Quenching Reagent  
Catalog Number: PK3003X-Q

**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:

**OSHA HazCom (US):** Not classified as hazardous

**Regulation (EC) No 1272/2008 (CLP):** Not classified as hazardous

Physical hazards: Not hazardous

Health hazards: Not Hazardous

Environmental Hazards: Not Hazardous

Additional information: Not applicable

#### Label elements

Labelling according to OSHA and Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms: None

Signal word: None

Hazard statements: None

**Precautionary Statements: None**

### 3. INGREDIENT COMPOSITION/INFORMATION:

Ingredient	Chemical Name	Concentration	Classification
Tris-HCl	1185-53-1	~4%	Not Classified

This mixture does not contain substances classified as hazardous at or above reportable thresholds under US OSHA or EU CLP.

### 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 irritation

#### 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 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 @ 20°C: liquid

Odor: Not available.

pH: Not available.

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: 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 oxidizing agents.

Hazardous decomposition products: No data available

## 11. TOXICOLOGICAL INFORMATION:

Information on toxicology 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.

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

Not classified as dangerous 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 EC 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  
Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC: None  
German Water hazard classes (Wassergefährungsklassen): Not classified  
US OSHA: None

## 16. OTHER INFORMATION:

Reason for revision: Initial release of SDS  
Revision number: 0  
Revision: 1/6/2026

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.*