

## SAFETY DATA SHEET (SDS)

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

Product Name: TdT Enzyme

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### GHS – Classification

Signal Word: None

Hazard pictograms: None

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Hazard Statements: Not Applicable

#### Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

#### HMIS

Health: 0

Flammability: 0

Reactivity: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Does not contain substances presenting a health or environmental hazard in concentrations equal to or greater than the lowest of any of the limits mentioned in Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Not applicable

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested

Partition coefficient: Untested

Explosive properties: Untested

### 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: No data available  
Incompatible materials: None reported  
Hazardous decomposition products: No data available

#### 11. TOXICOLOGICAL INFORMATION:

Inhalation: May be irritating to mucous membranes and upper respiratory tract.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion: May be harmful if swallowed  
Carcinogenic effects: Not available  
Mutagenic effects: Not available  
Reproductive toxicity: Not available  
STOT – Single exposure: Not available  
STOT – Repeated exposure: Not available  
Teratogenic effects: Not available

#### 12. ECOLOGICAL INFORMATION:

Data not yet available.

#### 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

#### 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards : No chemicals were found.

#### 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

*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: DNase I buffer

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### GHS – Classification

Signal Word: None

Hazard pictograms: None

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Hazard Statements: Not Applicable

#### Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

#### HMIS

Health: 0

Flammability: 0

Reactivity: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Does not contain substances presenting a health or environmental hazard in concentrations equal to or greater than the lowest of any of the limits mentioned in Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Not applicable

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested  
Partition coefficient: Untested  
Explosive properties: Untested

#### 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known  
Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: No data available  
Incompatible materials: None reported  
Hazardous decomposition products: No data available

#### 11. TOXICOLOGICAL INFORMATION:

Inhalation: May be irritating to mucous membranes and upper respiratory tract.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion: May be harmful if swallowed  
Carcinogenic effects: Not available  
Mutagenic effects: Not available  
Reproductive toxicity: Not available  
STOT – Single exposure: Not available  
STOT – Repeated exposure: Not available  
Teratogenic effects: Not available

#### 12. ECOLOGICAL INFORMATION:

Data not yet available.

#### 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

#### 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards : No chemicals were found.

#### 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

*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: TUNEL reaction buffer

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### GHS – Classification

Signal Word: None

Hazard pictograms: None

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Hazard Statements: Not Applicable

#### Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

#### HMIS

Health: 0

Flammability: 0

Reactivity: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Does not contain substances presenting a health or environmental hazard in concentrations equal to or greater than the lowest of any of the limits mentioned in Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Not applicable

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested

Partition coefficient: Untested

Explosive properties: Untested

### 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: No data available  
Incompatible materials: None reported  
Hazardous decomposition products: No data available

#### 11. TOXICOLOGICAL INFORMATION:

Inhalation: May be irritating to mucous membranes and upper respiratory tract.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion: May be harmful if swallowed  
Carcinogenic effects: Not available  
Mutagenic effects: Not available  
Reproductive toxicity: Not available  
STOT – Single exposure: Not available  
STOT – Repeated exposure: Not available  
Teratogenic effects: Not available

#### 12. ECOLOGICAL INFORMATION:

Data not yet available.

#### 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

#### 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards : No chemicals were found.

#### 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

*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: DNase I

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### GHS – Classification

Signal Word: None

Hazard pictograms: None

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Hazard Statements: Not Applicable

#### Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

#### HMS

Health: 0

Flammability: 0

Reactivity: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Does not contain substances presenting a health or environmental hazard in concentrations equal to or greater than the lowest of any of the limits mentioned in Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Not applicable

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested

Partition coefficient: Untested

Explosive properties: Untested

### 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: No data available  
Incompatible materials: None reported  
Hazardous decomposition products: No data available

#### 11. TOXICOLOGICAL INFORMATION:

Inhalation: May be irritating to mucous membranes and upper respiratory tract.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion: May be harmful if swallowed  
Carcinogenic effects: Not available  
Mutagenic effects: Not available  
Reproductive toxicity: Not available  
STOT – Single exposure: Not available  
STOT – Repeated exposure: Not available  
Teratogenic effects: Not available

#### 12. ECOLOGICAL INFORMATION:

Data not yet available.

#### 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

#### 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards : No chemicals were found.

#### 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

*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: TUNEL equilibration buffer

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### Classification of substance or mixture

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: GHS06 Skull and crossbones, GHS08 Health Hazard, GHS09 Environment

Signal word: Danger

Hazard statements: H350i – H412

#### Precautionary Statements

Prevention: P201, P202, P280

Response: P308 + P313

Storage: P405

Disposal: P501

Other Hazards: Not applicable

#### HMS Classification

Health hazard: 3

Flammability: 0

Physical hazard: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Name	CAS No.	EC No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Sodium cacodylate	75-60-5	200-883-4	3%	Acute Tox 4 Acute Tox 2 Carc 1A Aquatic Acute 1 Aquatic Chronic	NA
Cobalt chloride	7646-79-9	231-589-4	<0.1%	Acute Tox. 4 Carc. 1B Skin Sens. 1 Muta. 2 Carc 1B Repr. 1B Aquatic Acute 1 Aquatic Chronic 1	Carc. 1B Acute Tox 4 Resp. Sens. 1

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Component	CAS No.	Value	Control parameters
Cobalt dichloride	7646-79-9	TWA	0.1 mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Light pink solution  
Odor: None  
Melting point/melting range: Untested  
Boiling point/boiling range: Untested  
Flash point: Untested  
Autoignition temperature: Untested  
Decomposition temperature: Untested  
Evaporation rate: Untested  
Flammability: Untested  
Upper explosion limit: Untested  
Lower explosion limit: Untested  
Vapor pressure: Untested  
Relative density: Untested  
Specific gravity: Untested  
Solubility: Untested  
Partition coefficient: Untested  
Explosive properties: Untested

## 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known  
Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: Avoid moisture  
Incompatible materials: Oxidizing agents, alkali metals  
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Cobalt/cobalt oxides  
Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION:

Inhalation: Not available.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion:  
Oral LD50 – Sodium cacodylate – 644 mg/kg (rat); cobalt dichloride: 418 mg/kg (rat)  
**Carcinogenic effects:**  
Carcinogenicity - mouse – Oral (sodium cacodylic acid)  
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.  
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. (sodium cacodylic acid)  
IARC: 1 - Group 1: Carcinogenic to humans (sodium cacodylic acid); IARC: 2B - Group 2B: Possibly carcinogenic to humans (Cobalt dichloride)  
2B - Group 2B: Possibly carcinogenic to humans (sodium cacodylic acid), 2B - Group 2B: Possibly carcinogenic to humans (Cobalt dichloride)  
IARC: 1 - Group 1: Carcinogenic to humans (sodium cacodylic acid)  
2B - Group 2B: Possibly carcinogenic to humans (sodium cacodylic acid)  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
Mutagenic effects: sodium cacodylic acid, cobalt dichloride  
**Reproductive toxicity:**  
Reproductive toxicity - mouse - Oral  
Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.  
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.  
(Dimethylarsinic

acid)  
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).  
Paternal Effects: Testes, epididymis, sperm duct. Effects on Fertility: Male fertility index (e.g., # males impregnating females per # males exposed to fertile nonpregnant females) (Cobalt dichloride).  
May damage fertility.  
STOT – Single exposure: Inhalation  
STOT – Repeated exposure: Not available  
Teratogenic effects: May cause congenital malformation in the fetus

## 12. ECOLOGICAL INFORMATION:

**Toxicity:**  
Sodium cacodylate: Toxicity to fish LC50 - Lepomis macrochirus -> 180 mg/l - 96h  
Cobalt dichloride: Toxicity to fish LC50 - Cyprinus carpio (Carp) - 0.33 mg/l - 96h  
Cobalt dichloride: Toxicity to daphnia and other aquatic invertebrates mortality NOEC - Daphnia - < 0.05 mg/l - 7 d EC50 - Daphnia magna (Water flea) - 1.1 - 1.6 mg/l - 48 h  
Cobalt dichloride: Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 0.52 mg/l - 96 h  
Persistence and degradability: Sodium cacodylic acid: Bioaccumulation Gambusia affinis (mosquito fish) – 32 d Bioconcentration factor: 21  
Other adverse effects: Very toxic to aquatic life with long-lasting effects

## 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

## 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards: No chemicals were found.

## 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

*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: Proteinase K

**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  
5400 Pearl Street  
STE 300  
Rosemont, IL 60018  
312-455-8498

Emergency telephone number:  
312-455-8498, ext 802

### 2. HAZARDOUS IDENTIFICATION:

#### GHS – Classification

Signal Word: None

Hazard pictograms: None

Health hazards: Not Hazardous

Physical hazards: Not Hazardous

Environmental hazards: Not Hazardous

Hazard Statements: Not Applicable

#### Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other hazards: Not Applicable

#### HMIS

Health: 0

Flammability: 0

Reactivity: 0

### 3. INGREDIENT COMPOSITION/INFORMATION:

Does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Does not contain substances presenting a health or environmental hazard in concentrations equal to or greater than the lowest of any of the limits mentioned in Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES:

Skin Contact	Wash off skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact	Ensure adequate flushing of eye contamination for at least 15 minutes.
Inhalation	Remove from exposure, rest and keep warm.
Ingestion	Wash mouth out thoroughly with water and drink plenty of water.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

### 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 dark, well-ventilated area. Store at -20°C.

### 8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

#### Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation.

#### Control Parameters:

Not applicable

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested

Partition coefficient: Untested

Explosive properties: Untested

### 10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: None reported  
Conditions to avoid: No data available  
Incompatible materials: None reported  
Hazardous decomposition products: No data available

#### 11. TOXICOLOGICAL INFORMATION:

Inhalation: May be irritating to mucous membranes and upper respiratory tract.  
Eye contact: May cause irritation  
Skin contact: May cause irritation  
Ingestion: May be harmful if swallowed  
Carcinogenic effects: Not available  
Mutagenic effects: Not available  
Reproductive toxicity: Not available  
STOT – Single exposure: Not available  
STOT – Repeated exposure: Not available  
Teratogenic effects: Not available

#### 12. ECOLOGICAL INFORMATION:

Data not yet available.

#### 13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

#### 14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION:

US Toxic Substances Control Act (TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards : No chemicals were found.

#### 16. OTHER INFORMATION:

Reason for revision: New product  
Revision number: 1  
Revision: 2/4/2021

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.

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