

**Section 1. Identification of the substance/mixture and of the company/undertaking****Product Details**

**Product Code** PX-BPD-NB  
**Product Name** Pro Neutralization Buffer  
**Kit Content**

<b>A.</b>	<b>Pro Resuspension Buffer</b>
<b>B.</b>	<b>Pro Lysis Buffer</b>
<b>C.</b>	<b>Pro Neutralization Buffer</b>
<b>D.</b>	<b>Pro Wash Buffer 1</b>
<b>E.</b>	<b>Pro Wash Buffer 2</b>
<b>F.</b>	<b>Pro Wash Buffer 3</b>
<b>G.</b>	<b>Pro Elution Buffer</b>
<b>H.</b>	<b>RNase A Solution</b>

**Recommended Usage**

**Identified Uses** Scientific research/Laboratory use

**Manufacturer**

**Company Name** Proteogenix Lifescience Pvt. Ltd.  
**Company Address** Pearl Business Park, Netaji Subash Place,  
New Delhi, Delhi-110034, INDIA  
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**Email** support@proteogenixx.com

**Section 2. Health hazard(s)****Substance/Mixture Classification**

GHS Classification according to Regulation (EC) No. 1272/2008

**Signal Word**

Warning

**Hazard Pictograms****Health Hazards****H302**

Harmful if swallowed

**H315**

Causes skin irritation

**H319**

Causes serious eye irritation

**Label Elements****Physical Hazards**

Information not available

**Environmental Hazards**

Not Classified

**Statements****P210**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

**P264**

Wash hands thoroughly after handling

**P280**

Wear protective gloves/clothing/eye and face protection

**P273**

Prevent environmental discharge

**P233**

Keep container tightly closed

**Precautionary Measures****P301 + P312**

IF SWALLOWED: Call a poison centre or doctor if you feel unwell.

**P303 + P361 + P353**

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

**P305 + P351 + P338**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P332 + P313**  
advice/attention.

If skin irritation occurs: Get medical

## Disposal

**P501**

Dispose of contents and container according to local regulations

## Other Hazards

Not applicable

## Storage

Not applicable

**Section 3. Composition/information of ingredients****Substances**

Not Applicable

**Mixtures**

Component	CAS No.	EC No.	Classification	Weight
Guanidine thiocyanate Mol. Formula: C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S	593-84-0	209-812-1	H302+H312+H332+ H314+H318 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1C Eye Dam. 1 Aquatic Chronic 3	20-50 %

We recommend handling all the chemicals with care.

## Section 4. First aid measures

### General Advice

- Seek Medical Attention: Consult a doctor immediately.
- Show SDS: Present this safety data sheet to the attending physician.

### If Inhaled

- Move to Fresh Air: If inhaled, relocate the person to a well-ventilated area.
- Check Breathing: If not breathing, administer artificial respiration.
- Get Medical Help: Seek immediate medical assistance.

### If Skin Contact

- Wash Thoroughly: Rinse the affected area with soap and plenty of water.
- Consult a doctor: Consult a physician for further evaluation.

### If Eye Contact

- Rinse Immediately: Flush eyes with plenty of water for at least 15 minutes.
- Seek Medical Care: Consult a doctor promptly.

### If Swallowed

- Do Not Give Anything by Mouth: If the person is unconscious, do not give anything orally.
- Drink Water: Make the person drink more and more water. Consult the doctor if needed.

### Instructions for necessary medical attention and specific treatment

None

### Important Note

None

## Section 5. Firefighting measures

### Extinguishing Media

#### Suitable Extinguishing Media:

- Select extinguishing agents appropriate for the specific circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media:

- No limitations are specified for extinguishing agents for this substance/mixture.

### Special Hazards

- Non-Combustible: The substance itself is not flammable.
- Hazardous Vapours: Ambient fires may release hazardous vapours.

### Advice for Firefighters

- Wear Self-Contained Breathing Apparatus (SCBA): Only enter the danger zone with SCBA.
- Protect Skin: Maintain a safe distance or wear suitable protective clothing to prevent skin contact.

### Further Information

- Suppress Vapours: Use a water spray jet to suppress gases, vapours, or mists.
- Prevent Water Contamination: Avoid contaminating surface water or groundwater systems with firefighting water.

## Section 6. Accidental release measures

### Personal Precautions, Protective Equipment, and Emergency Procedures

- Use PPE: Employ appropriate personal protective equipment (PPE).
- Avoid Inhalation: Prevent breathing vapours, mist, or gas.
- Ensure Ventilation: Provide adequate ventilation.

### Environmental Precautions

- Prevent product from entering the sewer system.

### Containment and Cleanup

- Absorb and Dispose: Soak up spills with an inert absorbent material and treat as hazardous waste.
- Proper Storage: Store the collected material in suitable, closed containers for disposal.

### Disposal Reference

- For disposal instructions, consult Section 13.

## Section 7. Handling and storage

### Precautions for Safe Handling

- Avoid inhalation
- Wear protective gloves and clothing before use.

### Hygiene Measures

- Immediately remove and change contaminated clothing.
- Wash hands and face after working with the substance.

### Safe Storage Conditions

- Store in a dry, cool, and well-ventilated location.
- Use properly labelled containers.

### Specific end use(s)

Intended for laboratory use only. Scientific research and development.

**Section 8. Exposure controls/personal protection****Control Parameters**

Free of substances with specified occupational exposure limits.

**Exposure Controls****Personal Protective Equipment**

- **Eye/Face Protection:** Use eye protection equipment that meets appropriate government standards. Safety glasses are recommended.
- **Skin and Body Protection:** Wear gloves and lab coats before handling. Dispose of contaminated gloves properly and wash hands thoroughly.
- **Respiratory Protection:** When vapours or aerosols are generated, wear respiratory protection. Ensure proper maintenance, cleaning, and testing of respiratory protective devices according to manufacturer's instructions and document these procedures.

**Control of Environmental Exposure**

- Prevent Drain Discharge

**Section 9. Physical and chemical properties**

<b>S.No.</b>	<b>Parameter</b>	<b>Property</b>
1	Physical state	Liquid
2	Appearance	Clear Solution
3	Odour	No data available
4	pH	4.5-5.5
5	Melting point/freezing point	No data available
6	Initial boiling point and boiling range	No data available
7	Flammability (solid, gas)	No data available
8	Upper/lower flammability or explosive limits	No data available
9	Flash point	No data available
10	Autoignition temperature	No data available
11	Decomposition temperature	No data available
12	Viscosity	No data available
13	Water solubility	Soluble at 20°C
14	Partition coefficient: n-octanol/water	No data available
15	Vapor pressure	No data available
16	Density	1.09 g/cm <sup>3</sup>
17	Relative vapor density	No data available
18	Particle characteristics	No data available
19	Explosive properties	Not classified as explosive
20	Oxidizing properties	None

## Section 10. Stability and reactivity

### Reactivity

- No information available.

### Chemical Stability

- Stable under ambient conditions

### Possibility of Hazardous Reactions

- Not reported

### Conditions to Avoid

- Information on conditions to avoid is not currently available.

### Incompatible Materials

- Information not available.

### Hazardous Decomposition Products

- Not applicable

## Section 11. Toxicological Information

### Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute Toxicity

- Information not available

#### Skin Corrosion/Irritation

- Causes skin irritation
- Extremely corrosive and destructive to tissue

#### Serious Eye Damage/Eye Irritation

- Mixture causes serious eye damage

#### Respiratory or Skin Sensitization

- Information on respiratory or skin sensitization is not available.

#### Germ Cell Mutagenicity

- Information on germ cell mutagenicity is not available.

#### Carcinogenicity

- Information on carcinogenicity is not available.

#### Reproductive Toxicity

- Information on reproductive toxicity is not available.

#### Specific Target Organ Toxicity

- Information not available

#### Aspiration Hazard

- Information on aspiration hazard is not available.

## Section 12. Ecological information

### Toxicity

- Guanidine thiocyanate: LD50 Oral - Rat - female - 593 mg/kg

### Persistence and Degradability

- May cause long-term adverse effects in the environment

### Bioaccumulative Potential

- Harmful to aquatic life with long lasting effects

### Mobility in Soil

- No data available

### PBT and vPvB Assessment

- **No PBT or vPvB Components:** This substance/mixture does not contain components classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

## Section 13. Disposal consideration

### Waste Treatment Methods

- **Waste Reduction:** Minimize or avoid waste generation whenever possible.
- **Proper Disposal:** Empty containers or liners may retain product residues. Dispose of these materials according to approved disposal methods.
- **Regulatory Compliance:** Ensure that disposal of the product, its solutions, or by-products complies with all relevant local, regional, or national/federal regulations.

**Section 14. Transport information**

**Un Number**

Not applicable

**UN proper shipping name**

Not applicable

**Transport Hazard Class**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

Not applicable

**Special precautions for user**

Not Applicable

**Section 15. Regulatory information****Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**Chemical Safety Assessment**

No data available

**Other information**

No data available

**Disclaimer**

This product is intended for research and development use only and is not to be utilized for any drug, household, or other unauthorized uses. Users must consult the accompanying Material Safety Data Sheet (SDS) for information pertaining to hazards, proper handling, and safety precautions associated with this product. The manufacturer disclaims any liability for use other than as specified herein.

The SDS outlines specific measures to protect yourself and the environment, such as wearing appropriate PPE, working in well-ventilated areas, and avoiding contact with incompatible materials. It also provides instructions on how to respond to spills, leaks, and emergencies. By following the guidelines provided in this document, you can contribute to a safe and healthy working environment.

**--End of Safety Data Sheet--**