

## SAFETY DATA SHEET (SDS)

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

**Product Name:** MultiPro™ Enhanced Blocking Reagent

**Catalog Number:** G900005

**Chemical Name:** Not applicable

**REACH registration number:** No registration number is given yet for the 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.

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP) and OSHA GHS

**Company undertaking identification:**

Proteintech Genomics, Inc.  
11588 Sorrento Valley Rd  
Ste 22  
San Diego, CA 92121  
(858) 251-1468

**Emergency telephone number:**

(858) 251-1468

### 2. HAZARDOUS IDENTIFICATION

**Classification according to Regulation (EC) No 1272/2008 (CLP) and GHS:**

Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present.

**Labeling according to Regulation (EC) No 1272/2008 (CLP) and GHS:**

Pictogram: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None known

### 3. INGREDIENT COMPOSITION/INFORMATION

Mixture of the substances listed below and additional trade secret chemicals.

Water	Balance	CAS No.: 7732-18-5
Sodium azide	< 0.09%	CAS No.: 26628-22-8
Sodium chloride	< 1%	CAS No.: 7647-14-5
Potassium chloride	< 1%	CAS No.: 7447-40-7
Sodium phosphate dibasic	< 1%	CAS No.: 7558-79-4
Potassium phosphate monobasic	< 1%	CAS No.: 7778-77-0
Antibody	<0.01%	CAS No.: none
DNA	<0.5%	CAS No.: none

### 4. FIRST AID MEASURES

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

**Most important symptoms/effects, acute and delayed:**

**Potential acute health effects:**

**Skin contact:** May cause sensitization of susceptible persons.

**Over-exposure signs/symptoms:**

**Skin contact:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeat exposure.

**Ingestion:** Repeated ingestion may cause damage to kidneys. Avoid repeat exposure.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

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

See **Toxicological Information** (Section 11).

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Water fog, alcohol resistant foam, dry extinguishing powder or Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** High power water jet.

**Specific hazards arising from the chemical:** Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide

**Special protective actions for fire-fighters:** Co-ordinate fire-fighting measures to the fire surroundings.

**Special protective equipment for fire-fighters:** In case of fire: Wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. 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 cleanup:**

**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 good general ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool area. Store at -22°C to -18°C.

**Precautions for safe handling:**

**Protective measures:** Use appropriate personal protective equipment (PPE) (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.

**Conditions for safe storage, including any incompatibilities:**

Store between -22 °C and -18 °C. Store in accordance with local regulations. Store in original container protected from light in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened shall be carefully resealed and kept upright to prevent

leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PPE

**Control parameters:**

**Occupational exposure limits:** 25ppm

**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.

**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 shall 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 shall 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 shall 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at -20 °C: solid  
 Color: Varies  
 Odor: Not available  
 Odor threshold: 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: Soluble  
 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 will not occur.  
 Conditions to avoid: Heat. UV-radiation/sunlight.  
 Incompatible materials: Oxidizing agents, reducing agents, acid and alkalis.  
 Hazardous decomposition products: Pyrolysis products, toxic. Carbon monoxide.  
 Carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicology effects:

Acute toxicity:

Sodium azide	Conc.: <0.09 %	CAS No.: 26628-22-8
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Irritation/corrosion: Slightly irritant but not relevant for classification.  
 Sensitization: Not sensitizing  
 Mutagenicity: Not available  
 Carcinogenicity: Not available  
 Reproductive toxicity: Not available  
 Teratogenicity: Not available  
 Specific target organ toxicity (single exposure): Not available  
 Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure  
 Aspiration hazard: Not available  
 Conclusion/summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

### Information on the likely routes of exposure:

Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Potential acute health effects: No known significant effects or critical hazards.  
 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: Slightly irritant but not relevant for classification.  
 Inhalation: No specific data.  
 Skin contact: Slightly irritant but not relevant for classification.

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

Persistence and degradability: Product is biodegradable.  
 Bioaccumulative potential: No indication of bioaccumulation potential.  
 Mobility in soil: No information available.  
 Results of PBT and vPvB assessment: This substance does not meet the criteria for classification as PBT or vPvB.  
 Other adverse effects: No information available.

### Disposal conderations:

Appropriate disposal/Product: Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. May be disposed of in household waste landfill.  
 Appropriate disposal/package: Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.  
 List of proposed waste codes/waste designations in accordance with EWC: According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste code product: 18 02 05 - chemicals consisting of or containing dangerous substances.

Waste code packaging: 15 01 10 - packaging containing residues of, or contaminated by, dangerous substances.

## 13. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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

#### 14. REGULATORY INFORMATION:

##### US Federal Regulations:

This mixture is not listed on the TSCA Inventory.

This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304: Composition/information on ingredients: No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Proposition 65:

Not listed

##### EU legislation:

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline): None

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer: None

Regulation (EC) No. 648/2004 (Detergents regulation): None

International regulations: None

#### 15. OTHER INFORMATION:

Reason for revision: Initial release of SDS

Revision: A

Revision: 17 Apr 2024

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 research use only. Not for diagnostic or therapeutic work.*