



# Material Safety Data Sheet

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Version: 1.2

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

BlockPRO<sup>™</sup> Protein-Free Blocking Buffer Commercial Product name:

**Product number:** BF01-1L/BF01-100/BF01-200

Intended use: Biochemical reagent

Manufacturer: Visual Protein Biotechnology Corp

Address: No. 510, ZhongZheng Rd., XinZhuang District,

New Taipei City, Taiwan 24299

**Emergency telephone** 

number:

+886-2-8660-6212

#### 2. CHEMICAL CHARACTERISATION

Commercial Product name: Blocking Buffer

Substance/mixture: Mixture **Description**: Not available

#### Listing of dangerous and non-hazardous components:

CAS number	Ingredient Name	Concentration
68112-30-1	Tris	10-15%
8028-77-1	NaCl	1-5%

# 3. HAZARDS IDENTIFICALTION

#### Classification of the substance or mixture

Not classified.

### Label elements



Not applicable.

#### Other hazards

No.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

### 4. FIRST AID MEASURES

#### **Description of first aid measures**

**Eye Contact:** Flush eyes with plenty of water for at least 20 minutes retracting

eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Remove contact lenses, clean

before re-use. Get immediate medical attention.

**Inhalation**: Remove to fresh air. If breathing is difficult, have a trained

individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately.

**Skin Contact**: Wash with soap and water. Remove contaminated clothing and

launder immediately, and discard contaminated leather goods, and wash before re-use. Get medical attention immediately if

irritation develops or persists.

**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 small quantities of water or milk to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention immediately.

# Most important symptoms/effects, acute and delayed potential acute health effects

Eye Contact : No known significant effects or critical hazards.
 Inhalation : No known significant effects or critical hazards.
 Skin Contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye Contact**: No specific data.



Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

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

**Note To Physician:** Treat symptomatically. If large quantities have been

ingested or inhaled, contact poison treatment specialist

immediately.

**Specific treatments:** No specific treatment.

#### 5. FIRE FIGHTING MEASURE

**Extinguishing media** 

Suitable extinguishing Use an extinguishing agent suitable for the

media: surrounding fire.

Unsuitable extinguishing None known.

media:

Special hazards arising from the substance or mixture

**Specific hazards from the** In a fire or if heated, a pressure increase will occur

**substance or mixture:** and the container may burst.

**Hazardous combustion** Includes carbon dioxide, carbon monoxide, and

**products**: dense smoke.

Advice for firefighters

**Special precautions for**From the vicinity of the incident if there is a fire. No

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: equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

Fire-fighters should wear appropriate protective

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 spilt material. Put on appropriate personal protective equipment.

#### **Environmental precautions**

Avoid dispersal of spilt 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:** Exposure to the spilled material may be irritating or

harmful. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which

the spill occurred. Also consider the expertise of

employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed

container pending a waste disposal evaluation.

**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. Dispose of via a

licensed waste disposal contractor.

# 7. HANDLING AND STORAGE

# **Precautions for safe handling**

No data available.



#### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated place. Keep container tightly closed and sealed until ready for use.

\*Recommended storage temperature: 2 - 8 °C

#### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

#### **Exposure controls**

TWA: Not applicable. STEL: Not applicable. CEILING: Not applicable. BEIs: Not applicable.

#### Control parameters

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

Hand protection: Wear chemically resistant gloves, Inspect gloves for

> chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety

shower available.

Skin and body

Impervious clothing, The type of protective equipment protection: must be selected according to the concentration and

amount of the dangerous substance at the specific

workplace.

A respiratory protection program that meets OSHA's 29 Respiratory protection:

> CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a

respirator's use.

Eye protection: Wear chemical safety goggles. An eye wash station

must be available where this product is used.

#### **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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical state: Liquid. Color: Colorless. Odor: No Odor. Odor threshold: Not available. 7.8 to 8.1 pH: Melting point: Not available. Not available. **Boiling point:** Flash point: Not available. **Burning time:** Not available. **Burning rate:** Not available. **Evaporation rate:** Not available. Flammability (solid, gas): Not available. Lower and upper explosive Not available.

(flammable) limits:

Vapor pressure:

Vapor density:

Relative density:

Solubility:

Solubility in water:

Partition coefficient: n-octanol/

Not available.

Not available.

Not available.

Not available.

water (log Kow):

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# **Chemical stability**

Stable.

#### Possibility of hazardous reaction



Under normal conditions of storage and use, hazardous reactions will not occur.

### **Conditions to avoid**

No specific data.

### **Incompatible materials**

No specific data.

# **Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Acute toxicity: Not available. Acute toxicity estimates: Not available. Irritation/Corrosion: Not available. Sensitization: Not available. Not available. Mutagenicity: Carcinogenicity: Not available. Reproductive toxicity: Not available. Not available. Teratogenicity: Aspiration hazard: Not available.

### Potential acute health effects

Eye contact :No known significant effects or critical hazards.Inhalation :No known significant effects or critical hazards.Skin contact :No known significant effects or critical hazards.Ingestion :No known significant effects or critical hazards.

# Potential chronic health effects

Eye contact :No known significant effects or critical hazards.Inhalation :No known significant effects or critical hazards.Skin contact :No known significant effects or critical hazards.Ingestion :No known significant effects or critical hazards.



#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

Not available.

# Persistence and degradability

Not available.

# **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Not available.

# Results of PBT and vPvB assessment

PBT: Not available. vPvB: Not available.

### Other adverse effects

No known significant effects or critical hazards.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Clean up and dispose of waste in accordance with all federal, state, and or local environmental.

# 14. TRANSPORT INFORMATION

# UN number (ADR, AND, IMDG, IATA)

Not available.

#### UN proper shipping name (ADR, AND, IMDG, IATA)

Not available.



Not available.

#### Packing group

No.

# **Environmental hazards**

Not available.

# 15. REGULARTARY INFORMATION

# Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

# **Chemical Safety Assessment**

No data available.

# 16. OTHER INFORMATION

# **Hazardous Material Information System (U.S.A.)**

Health	0
Flammability	0
Reactivity	0

#### **National Fire Protection Association (U.S.A.)**

Health	0
Flammability	0
Instability/Reactivity	0

#### **Abbreviations**

- **ADR** European Agreement Concerning the International Carriage of Dangerous Goods by Road
- **ADN** A set of European regulations for the carriage of dangerous goods by inland waterway





**IMDG** - International Maritime Dangerous Goods

IATA - International Air Transport Association-Dangerous Goods Regulations OSHA - Occupational Health and Safety Administration