



# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2019

Date Updated: July 22, 2019

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

**Product Name** 10-250kDa Wide Range Blue/Red/Green Three Color Prestained Protein Ladder  
**Product Code(s)** BZ0011G  
**Recommended Use** For Laboratory Research Use Only  
 Not for Human or Animal Drug Use  
  
**Supplier** Bio Basic Inc.  
**Address** 20 Konrad Crescent, Markham, Ontario,  
 Canada, L3R 8T4  
  
**Telephone** (905) 474 4493  
**Fax** (905) 474 5794  
**For Chemical Emergency Phone#** (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### GHS-Classification

**Signal Word**  
Not Hazardous

**Health Hazard**  
Not Hazardous

**Physical Hazards**  
Not Hazardous

### Principle Routes of Exposure/Potential Health Effects

**Eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**Inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

### Specific Effects

**Carcinogenic Effects** None  
**Mutagenic Effects** None  
**Reproductive Toxicity** No information available  
**Sensitization** No information available

**Target Organ Effects** No known effects under normal use conditions.

### HMIS

Health	0
Flammability	0
Reactivity	0

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**SECTION 4. ----- FIRST-AID MEASURES-----**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**SECTION 5. ----- FIRE FIGHTING MEASURES-----**

**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

**Explosion data - sensitivity to mechanical impact**

No data available

**Explosion data - sensitivity to static discharge**

No data available

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

**Environmental precautions**

No special environmental precautions required.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material.

**Reference to other sections**

See section 8 for more information.

**SECTION 7. ----- HANDLING AND STORAGE-----**

**Precautions for safe handling**

Use personal protective equipment as required. .

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

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Specific end use(s)**

Use as a laboratory reagent, for scientific research and development.

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

## Personal protective equipment

### Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

### Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

### Eye protection

Tight sealing safety goggles

### Skin and body protection

Wear suitable protective clothing

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### Environmental exposure controls

No special environmental precautions required.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

### Information on basic physical and chemical properties

Appearance	liquid	
Odor	No data available	
pH	N/A	
Melting point / melting range	°C Mixture has not been tested	°F Mixture has not been tested
Boiling point / boiling range	°C Mixture has not been tested	°F Mixture has not been tested
Flash point	°C Mixture has not been tested	°F Mixture has not been tested
Autoignition Temperature	°C Mixture has not been tested	°F Mixture has not been tested
Decomposition temperature	°C Mixture has not been tested	°F Mixture has not been tested
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Upper explosion limit	Mixture has not been tested	
Lower explosion limit	Mixture has not been tested	
Vapor Pressure	Mixture has not been tested	
Relative density	Mixture has not been tested	
Specific gravity	No data available	
Solubility	No data available	
Partition coefficient: n-octanol/water	No data available	
Explosive properties	Mixture has not been tested	
Other information	No data available	

## SECTION 10. -----STABILITY AND REACTIVITY -----

### Reactivity

None known.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Hazardous reaction has not been reported.

**Conditions to avoid**

No data available

**Materials to avoid**

No dangerous reaction known under conditions of normal use.

**Hazardous decomposition products**

No data available.

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

**Acute toxicity**

**Oral LD50**

No data available

**Inhalation LC50**

No data available

**Dermal LD50**

No data available

**Other information on acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

No data available

**Additional Information**

RTECS: Not available

**SECTION 12. ----- ECOLOGICAL INFORMATION -----****Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----****Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

**SECTION 14. ----- TRANSPORT INFORMATION -----****DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15. ----- REGULATORY INFORMATION -----**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION -----**

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**Issuing Date:** 22-Jul-2019

**End of SDS**