



# SAFETY DATA SHEET

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

Version: 2019  
Date Updated: July 24, 2019

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

**Product Name** IPTG  
**Product Code(s)** IB0168  
**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 -----

### Classification of the substance or mixture

#### Classification according to Hazardous Products Regulation (SOR/2015-17)

This substance is classified as not hazardous according to Hazardous Products Regulation (SOR/2015-17)

### Label elements

#### Labelling in accordance with (SOR/2015-17)

According to Hazardous Products Regulation (SOR/2015-17) the product does not have to be labelled.

### Hazards not otherwise classified (HNOC)

Not regulated

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

Chemical Name	EC No.	CAS-No	Weight %
Isopropyl- $\beta$ -D-thiogalactopyranoside	-	367-93-1	<100

## SECTION 4. ----- FIRST-AID MEASURES-----

### General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to

do. Continue rinsing.

**In case of ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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

no data available

**Indication of any immediate medical attention and special treatment needed**

no data available

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

**Information to physician**

no data available

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

**Extinguishing media**

**Suitable extinguishing media**

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

**Extinguishing media which must not be used for safety reasons** no restriction

**Specific hazards arising from the chemical**

In case of fire may be liberated:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Sulphur oxides

**Advice for firefighters**

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray/stream to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

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

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

Avoid dust formation.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up**

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

**Additional information**

Clear spills immediately.

## SECTION 7. ----- HANDLING AND STORAGE-----

### Precautions for safe handling

Avoid: Inhalation Avoid contact with eyes and skin. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

### Conditions for safe storage, including any incompatibilities

Recommended storage temperature: -20°C

Keep container tightly closed and in a well-ventilated place.

### Specific end use(s)

no data available

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

### Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

#### By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm

Breakthrough time (maximum wearing time): > 480 min

#### By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm

Breakthrough time (maximum wearing time): > 480 min

#### *Respiratory protection*

Usually no personal respirative protection necessary.

#### *Additional information*

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### *Environmental exposure*

controls no data available

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

### Information on basic physical and chemical properties

- |                      |                   |
|----------------------|-------------------|
| (a) Appearance       |                   |
| Physical state:      | solid             |
| Color:               | cream-colored     |
| (b) Odour:           | no data available |
| (c) Odour threshold: | no data available |

### Safety relevant basic data

- |  |                   |
|--|-------------------|
| (d) pH:                                      | no data available |
| (e) Melting point/freezing point:            | 109.5-110.5 °C    |
| (f) Initial boiling point and boiling range: | 402 °C (1013 hPa) |
| (g) Flash point:                             | > 110 °C          |
| (h) Evaporation rate:                        | no data available |
| (i) Flammability (solid, gas):               | not applicable    |
| (j) Flammability or explosive limits         |                   |
| Lower explosion limit:                       | no data available |
| Upper explosion limit:                       | no data available |
| (k) Vapour pressure:                         | no data available |
| (l) Vapour density:                          | no data available |
| (m) Relative density:                        | no data available |
| (n) Solubility(ies)                          |                   |
| Water solubility (g/L):                      | soluble (20 °C)   |
| Soluble (g/L) in Ethanol:                    | no data available |
| (o) Partition coefficient: n-octanol/water:  | -0.64 (20 °C)     |
| (p) Auto-ignition temperature:               | no data available |
| (q) Decomposition temperature:               | no data available |
| (r) Viscosity                                |                   |
| Kinematic viscosity:                         | no data available |
| Dynamic viscosity:                           | no data available |
| (s) Explosive properties:                    | not applicable    |
| (t) Oxidising properties:                    | not applicable    |

### Other information

- |                        |                   |
|------------------------|-------------------|
| Bulk density:          | no data available |
| Refraction index:      | no data available |
| Dissociation constant: | no data available |
| Surface tension:       | no data available |
| Henry constant:        | no data available |

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

### Reactivity

no data available

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Incompatible materials**

no data available

**Hazardous decomposition products**

no data available

**Additional information**

no data available

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----****Information on toxicological effects****Acute effects**

*Acute oral toxicity:*

LD50: < 5000 mg/kg - Rat - (CHP)

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

**Irritant and corrosive effects**

*Primary irritation to the*

*skin:* not applicable

*Irritation to eyes:*

not applicable

*Irritation to respiratory tract:*

not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitising

After inhalation: not sensitising

**STOT-single**

**exposure** not

applicable

**STOT-repeated**

**exposure** not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

no data available	ACGIH	IARC	NTP	OSHA

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**Additional information**

no data available

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

**Ecotoxicity**

**Fish toxicity:**

no data available

**Daphnia toxicity:** no data available

**Algae toxicity:** no data available

**Bacteria toxicity:** no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Partition coefficient: n-octanol/water: -0.64 (20 °C)

**Mobility in soil:**

no data available

**Results of PBT/vPvB assessment**

no data available

**Other adverse effects**

no data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Waste treatment methods**

**Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Waste code product: no data available

**Appropriate disposal / Package**

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

**Additional information** no data available

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

**TDG (CAN)**

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 MSDS 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:** 24-Jul-2019

**End of SDS**