



# SAFETY DATA SHEET

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

Version: 2019

Date Updated: May 23, 2019

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

**Product Name** Triton X-100  
**Product Code(s)** TB0198  
**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 (GHS-CA)

Skin Irrit. 2 H315  
 Eye Irrit. 2A H319  
 Full text of H statements: see section 16

### GHS Label elements, including precautionary statements

#### GHS-CA Labelling

Hazard pictograms (GHS-CA):



**Signal word (GHS-CA):** Warning  
**Hazard statements (GHS-CA):** Causes skin irritation  
 Causes serious eye irritation  
**Precautionary statements (GHS-CA):** Wash exposed skin thoroughly after handling  
 Wear protective gloves, eye protection  
 IF ON SKIN: Wash with plenty of water  
 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 If skin irritation occurs: Get medical advice/attention If eye irritation persists;  
 Get medical advice/attention Take off contaminated clothing and wash it  
 before reuse

#### Other Hazards

Other hazards not contributing to the classification None under normal conditions.

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

| Chemical Name                       | CAS-No    | Weight % | Classification (GHS-CA)                  | WHMIS Classification  |
|-------------------------------------|-----------|----------|--|---|
| Triton X-100®<br>(Main constituent) | 9002-93-1 | 100      | Skin Irrit. 2 H315<br>Eye Irrit. 2A H319 | Class D Division 2 Subdivision<br>B - Toxic material causing<br>other toxic effects |

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

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

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

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

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

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

##### **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**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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

##### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

##### **Personal protective equipment**

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to

engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Eye protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

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

#### **Appearance**

|        |               |
|--------|---------------|
| Form   | liquid, clear |
| Colour | light yellow  |

#### **Safety data**

|  |                   |
|--|-------------------|
| pH                                     | 6-7.5 (1%)        |
| Melting point                          | -5-5 °C           |
| Freezing point                         | No data available |
| Boiling point                          | > 177 °C          |
| Flash point                            | > 110 °C          |
| Ignition temperature                   | No data available |
| Auto-ignition temperature              | No data available |
| Lower explosion limit                  | No data available |
| Upper explosion limit                  | No data available |
| Vapour pressure                        | No data available |
| Density                                | No data available |
| Water solubility                       | soluble           |
| Partition coefficient: n-octanol/water | No data available |
| Relative vapour density                | No data available |
| Odour                                  | No data available |
| Odour Threshold                        | No data available |
| Evaporation rate                       | No data available |

**SECTION 10. -----STABILITY AND REACTIVITY -----**

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Materials to avoid**

Strong acids, Strong bases, Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available

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

Likely routes of exposure:

Inhalation. Skin and eyes contact.

**Information on toxicological effects**

Acute toxicity (oral)

Not classified

Acute toxicity (dermal)

Not classified

Acute toxicity (Inhalation)

Not classified

|                           |                                |
|---------------------------|--------------------------------|
| Triton X-100® (9036-19-5) |                                |
| LD50 oral rat             | 4190 mg/kg (Rat)               |
| LD50 dermal rabbit        | > 3000 mg/kg (Rabbit)          |
| ATE CA (oral)             | 4190.00000000 mg/kg bodyweight |

Skin corrosion/irritation:

Causes skin irritation  
pH 6-7.5 (1%)

Serious eye damage/eye irritation:

Causes serious eye irritation  
pH 6-7.5 (1%)

Respiratory or skin sensitization:

Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

Specific target organ toxicity - single exposure:

Not classified

Specific target organ toxicity - repeated exposure:

Not classified

Aspiration hazard

Not classified

|   |                                 |
|---|---------------------------------|
| Triton X-100® (9036-19-5)                       |                                 |
| Viscosity, kinematic (calculated value) (40 °C) | 371.42857143 mm <sup>2</sup> /s |

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

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

**Toxicity**

No data available

**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**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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

**TDG (Canada)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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

Regional legislation: Listed on the United States TSCA (Toxic Substances Control Act) inventory.

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

Full text of H-statements

|      |                               |
|------|-------------------------------|
| H315 | Causes skin irritation        |
| H319 | Causes serious eye irritation |

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.

**End of SDS**