



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® (Main constituent)	9002-93-1	100	Skin Irrit. 2 H315 Eye Irrit. 2A H319	Class D Division 2 Subdivision B - Toxic material causing 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 ² /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



CERTIFICATE OF ANALYSIS

Product	Triton X-100
Grade	Biotech
Product Code	TB0198
Formula	$C_{14}H_{22}O(C_2H_4O)_n(n=9-10)$
MW	647 (Avg.)
CAS#	9002-93-1
Lot No	

Test Items	Specifications	Results
Appearance	Hazy viscous liquid	
Cloud Point (1% aq. Solution),C	63-69	
Color (APHA)	≤60	

Storage: 18-25°C.