



SAFETY DATA SHEET

1. Identification:

Product Identifier: Triton™ X-100
Product code: BT2020
Synonym(s): Triton™ X-100
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: This chemical is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute Toxicity (Oral) Category 4
Serious Eye Damage Category 1

Label elements:



Signal word: Danger
Hazard statement: Harmful if swallowed. Causes serious eye damage.

Precautionary statement:

Prevention Wash skin thoroughly after handling. Do NOT eat, drink, or smoke when using this product. Wear eye protection/face protection
Response IF SWALLOWED: Call a Poison Center/doctor if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center/doctor.
Storage Store bottles tightly capped and upright. Keep in a cool place. Store locked up.
Disposal Dispose of contents/ container to an approved waste disposal plant.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: No information available.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Polyethylene Glycol Octylphenyl Ether	9036-19-5	>=97.0
Poly(ethylene oxide)	25322-68-3	<=3.0

4. First-aid measures

Inhalation:	Move to fresh air. Give artificial respiration if not breathing. Have trained personnel administer oxygen if breathing is difficult. Call a physician.
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.
Skin contact:	Immediately flush with cool, running water for at least 15 minutes. Seek medical advice if irritation occurs.
Eye contact:	While holding lids gently, but firmly apart, irrigate eyes with cool, clear running water for several minutes. Seek medical care.
Most important symptoms/effects, acute and delayed:	Any additional important symptoms and effects are described in Section 11: Toxicology Information
General information:	Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media:	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Special protective equipment and precautions for firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Fire-fighting equipment/instructions	Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.
NFPA	Health: 3 Flammability: 1 Reactivity: 0

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Avoid inhalation of vapors or mists.
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Methods and materials for containment and cleaning up:	Contain spilled material if possible. Absorb with materials such as: Sand or Dirt. Collect in suitable and properly labeled containers. Do not use water for cleanup.
Environmental precautions:	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Do not get in eyes. Avoid contact with skin or clothing. Do not swallow. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation. Keep container closed.
Conditions for safe storage, including any incompatibilities:	No specific requirements.

8. Exposure controls/personal protection

Control Parameters:

<u>Component</u>	<u>Control Parameters</u>	<u>Basis</u>
Poly(ethylene oxide)	10 mg/m ³ (TWA)	USA WEEL

Engineering measures: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines.

Personal protective equipment:

Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Liquid, Yellow
Odor:	Mild
Odor threshold:	No data available
Vapor Pressure (mm Hg):	<0.01 mmHg @ 20°C
Vapor density (Air = 1):	>1
pH:	6
Relative density:	1.061 at 20°C
Melting point/freezing point:	No data available
Solubility in Water:	Completely soluble but some compositions may form gels
Boiling Point (°F):	>200°C
Flash point:	251°C (closed cup) ASTM 93
Evaporative Rate (H₂O = 1):	<0.01
Flammability (solid, gas):	No

Upper/lower flammability or explosive limits

Flammability limit - lower	No data available
Flammability limit - upper	No data available
Explosive limit – lower	No data available
Explosive limit - upper	No data available
Partition coefficient: n-octanol/water	Log Pow: 2.7
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	226 cSt
Other information:	
Pour Point	2°C

10. Stability and reactivity

Reactivity:	This product is stable and nonreactive under normal conditions of use, storage, and transport.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
Incompatible materials:	Avoid contact with: Strong acids, Strong Oxidizers.
Hazardous decomposition products:	Decomposition products depend upon temperature, air supply and the presence of other materials. Aldehydes. Ketones. Organic acids.

11. Toxicological information**Information on likely routes of exposure:**

Ingestion:	Low toxicity if swallowed.
Inhalation:	At room temperature, exposure to vapor is minimal due to low volatility.
Skin Contact:	May cause slight or mild irritation to the skin.
Eye Contact:	May cause severe irritation to the eyes.

Information on toxicological effects

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

<u>Component</u>	<u>LD₅₀ Oral</u>	<u>LD₅₀ Dermal</u>	<u>LC₅₀ Inhalation</u>
Poly(ethylene oxide)	No data available	>3000 mg/kg (rabbit) 8000 mg/kg (rabbit)	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory Sensitization	No data available

Skin sensitization No data available.

Carcinogenicity No data available

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

U.S. National Toxicology Program (NTP) Report on Carcinogens

Mutagenic effects No data available.

Reproductive effects No data available.

STOT – single exposure No data available

STOT – repeated exposure No data available

Aspiration hazard No data available.

Chronic effects No data available

12. Ecological information

Ecotoxicity: Toxic to aquatic life.

Persistence and degradability: Chemical Oxygen Demand (COD) 2.19 mg/g

Bioaccumulation/ Accumulation: No data available

Mobility in soil: No data available

Other adverse effects: No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste disposal methods: To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.

14. Transport information

DOT: Not regulated for transport.

UN number:

UN proper shipping name:

Hazard class(es)

Subsidiary class(es)

Packing group

Other information

15. Regulatory information**U.S. Federal regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No
	Delayed Hazard No
	Fire Hazard –No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not regulated
Clean Water Act	Not regulated
California Prop 65	This product does not contains a chemical known to the State of California to cause cancer.

16. Other information, including date of preparation or last revision

Revision date	January 3, 2023
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.