



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: TX-100
 PRODUCT NUMBER: T8100
 COMPANY INFO: PhytoTech Labs Inc.
 14610 W 106th St. Lenexa, KS 66215
 Phone: 1-888-749-8682 or 1-913-341-5343
 www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
 1-352-323-3500 - International

RECOMMENDED USE: For Laboratory-use or Further Manufacture only

RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. are intended for laboratory and further manufacturing use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H302 – Acute toxicity, Oral (Category 4)
 H318 – Serious eye damage (Category 1)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Danger**

Hazard Statements:

H302 – Harmful if swallowed
 H318 – Causes serious eye damage.

Precautionary Statements:

P270 - Do not eat, drink or smoke when using this product.
 P280 – Wear protective gloves/protective clothing/eye protection.
 P301 + P317 - IF SWALLOWED: Seek medical attention
 P305+P354+P338 - IF IN EYES: Rinse with water for several minutes. If able, remove contact lenses

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: X-100; 4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol; t-Octylphenoxy polyethoxyethanol; Polyethylene glycol tert-octylphenyl ether
 CAS No.: 9002-93-1
 Formula: $(C_2H_4O)_n C_{14}H_{22}O$, n=9-10

Ingredient	CAS Number	Percent	Hazardous
TX-100	9002-93-1	~100%	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

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

Route of Entry

Symptoms

First Aid Procedures

Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon dioxide and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	Strong oxidizers, Strong acids
Recommended Storage Temperature:	Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	No data available
Threshold Limit Values (TLVs):	No data available

Engineering Controls:

Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Respiratory protection is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow Liquid
pH:	No data available
Solubility:	Soluble in Water
Melting Point:	No data available
Vapor Density:	No data available
Vapor Pressure:	No data available
Odor:	No data available
Odor Threshold:	No data available
Viscosity:	No data available
Relative Density:	1.06 g/mL at 20°C
Evaporation Rate:	No data available
Initial Boiling Point and Boiling Range:	>200°C
Flammability (solid, gas):	N/A
Partition coefficient: n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flash Point (Closed Cup):	No data available
Flammable Limits:	Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	No data available
Conditions to Avoid:	No data available
Incompatibles Materials:	Strong Oxidizers, Strong Acids
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):	1800
	LD ₅₀ (Oral-Mouse)(mg/Kg):	No data available
	LD ₅₀ (Dermal-Rabbit)(mg/Kg):	>3000
Carcinogenicity:	NTP:	No
	IARC:	No
	OSHA Reg:	No

Reproductive Toxicity:	No data available	
Symptoms Associated with Overexposure:	Moderate skin irritation, may cause severe eye irritation	
Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available
Target Organs:	None identified	
Medical Conditions Aggravated by Exposure:	None identified	

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 8.9 mg/l - 96.0 h Toxicity to Daphnia - EC50 - Daphnia (water flea) - 26 mg/l - 48 h
Persistence and Degradability:	Biodegradability: Not readily biodegradable Chemical Oxygen Demand (COD): 2.19 mg/g
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental regulations.
---------------------	--

14. TRANSPORT INFORMATION

Domestic (D.O.T.):	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A

International:

IMDG:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A

IATA:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A

15. REGULATORY INFORMATION

TSCA:	Yes
SARA TITLE III:	

Section 302 (EHS) Ingredients: No
 Section 313 Ingredients: No
 Section 311/312 Hazard: Acute toxicity

Massachusetts Right to Know Components: No components are on the Massachusetts Substance List (MSL).
 Pennsylvania Right to Know Components: No components are on the Pennsylvania Code’s Hazardous Substance List (Chapter 323).
 New Jersey Right to Know Components: No components are listed amongst the New Jersey Right to Know Hazardous Substance List
 California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	3	N/A	0	0
NFPA Rating:	Health Hazard	Flammability	Instability	Special Hazard
	3	1	0	N/A

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 16 January 2025