



# SAFETY DATA SHEET

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

Version: 2025  
Date Updated: September 24, 2025

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

**Product Name** PEG t-octylphenyl ether (n = 7-8)  
**Product Code(s)** TDB0554  
**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 -----

### GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Acute toxicity (Oral) (Category 4), H302  
Skin irritation (Category 2), H315  
Serious eye damage (Category 1), H318  
Short-term (acute) aquatic hazard (Category 1)  
Long-term (chronic) aquatic hazard (Category 1), H410

### GHS Label elements, including precautionary statements



Pictogram

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 + P310 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.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) - none

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

Chemical Name	EC No.	CAS-No	Weight %
PEG t-octylphenyl ether (n = 7-8)	-	9036-19-5	<100

**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.

**In case of skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**In case of eye contact**

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

**If swallowed**

Never give anything by mouth to an unconscious person. Immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Protection of first-aiders**

For personal protection see section 8.

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

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards during firefighting**

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

**Hazardous combustion products**

Carbon oxides

**Special protective equipment for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

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

Advice for non-emergency personnel:

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

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

**Precautions for safe handling**

For precautions see section 2.

**Conditions for safe storage**

Tightly closed. Keep locked up or in an area accessible only to qualified or authorised persons.

**Storage class (TRGS 510):** 10, Combustible Liquids

**Recommended storage temperature**

See product label

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

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures :** No data available

**Personal protective equipment**

**Respiratory protection**

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

**Recommended Filter type:** Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Skin 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.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm

Break through time: 480 min

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm

Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye protection**

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU).

### **Skin and body protection**

Protective clothing.

### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

(a) Appearance	
Physical state:	viscous liquid
Color:	colourless
(b) Odour:	weak
(c) Odour threshold:	no data available
(d) pH:	5.0 – 8.0 (20 °C) Concentration: 10 g/l
(e) Solidification point:	6 °C
(f) Initial boiling point and boiling range:	> 200 °C (1,013 hPa)
(g) Flash point:	251 °C Method: c.c., closed cup
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	no data available
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapour pressure:	< 0.01 hPa (20 °C)
(l) Relative vapour density:	no data available
(m) Relative density:	no data available
(n) Density	1.058 g/mL (25 °C) Method: lit.
(o) Solubility(ies)	
Water solubility (g/L):	soluble (20 °C)
(p) Partition coefficient: n-octanol/water:	no data available
(q) Auto-ignition temperature:	no data available
(r) Decomposition temperature:	no data available
(s) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(t) Flow time	no data available
(u) Explosive properties:	not classified as explosive.
(v) Oxidising properties:	none
(w) Particle characteristics	
Particle size	no data available

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

### **Reactivity**

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### **Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Violent reactions possible with:  
Strong oxidizing agents  
Strong acids

**Conditions to avoid**

Strong heating.

**Materials to avoid**

No data available

**Hazardous decomposition products**

In the event of fire: see section 5

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----****Acute toxicity**

Acute toxicity estimate Oral - 500.05 mg/kg (Calculation method)

LD50 Oral - Rat - 1,900 - 5,000 mg/kg

Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary oedema and pneumonitis.

Inhalation: No data available

Acute toxicity estimate Dermal - > 2,000 mg/kg (Calculation method)

LD50 Dermal - Rabbit - > 3,000 mg/kg

**Skin corrosion/irritation**

Skin - Rabbit

Result: irritating - 4 h (OECD Test Guideline 404)

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Risk of serious damage to eyes. (Draize Test)

Remarks: Risk of corneal clouding.

**Respiratory or skin sensitization**

Sensitisation test: - Human

Result: negative

Patch test on human volunteers did not demonstrate sensitisation properties.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity. Did not show teratogenic effects in animal experiments.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

Ingestion of large amounts may cause:, Nausea, Diarrhoea

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. ----- ECOLOGICAL INFORMATION -----

### Ecotoxicity

#### Components:

**Octylphenol polyethoxyethanol**

#### Toxicity to fish

LC50 (Leuciscus idus (Golden orfe)): 0.26 mg/l

Exposure time: 96 h

Test Type: semi-static test

Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

#### Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.011 mg/l

Exposure time: 48 h

Test Type: static test

Remarks: (ECOTOX Database)

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

#### Toxicity to algae/aquatic plants

EC50 (Pseudokirchneriella subcapitata (green algae)):

1.9 mg/l

Exposure time: 96 h

Test Type: static test

GLP: yes

Remarks: (ECHA)

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

**M-Factor (Acute aquatic toxicity): 10**

#### Toxicity to fish (Chronic toxicity)

NOEC (Danio rerio (zebra fish)): 0.012 mg/l

Test Type: flow-through test

Analytical monitoring: yes

Method: OECD Test Guideline 210

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.03 mg/l

End point: reproduction rate

Exposure time: 21 d

Test Type: semi-static test

Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

**M-Factor (Chronic aquatic toxicity): 1**

#### Persistence and degradability

#### Components:

## Octylphenol polyethoxyethanol

### Biodegradability

Aerobic

Inoculum: activated sludge

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 22 %

Exposure time: 28 d

Method: OECD Test Guideline 301C

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

#### Octylphenol polyethoxyethanol:

#### Additional ecological information

Causes endocrine disruption.

Discharge into the environment must be avoided.

## SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

### Disposal methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## SECTION 14. ----- TRANSPORT INFORMATION -----

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Octylphenol polyethoxyethanol)

Class : 9

Packing group : III

Labels : Class 9 - Miscellaneous dangerous substances and articles

Packing instruction (cargo aircraft): 964

Packing instruction (passenger aircraft): 964

#### IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octylphenol polyethoxyethanol)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octylphenol polyethoxyethanol)

Class : 9

Packing group : III

Labels : 9  
ERG Code : 171  
Marine pollutant : no.

**Special precautions for user**

Remarks : EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

**NPRI Components** : Octylphenol polyethoxyethanol  
1,4-Dioxane  
ethylene oxide

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

**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 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.

**Issuing Date:** 24-Sept-2025

**End of SDS**