

# **Material Safety Data Sheet**

Version GHS 5.1 Revision date: 1/22/2015

## 1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Triton X-100 Product Cat No: T9500

CAS No: None

Manufacturer/Supplier: GenDEPOT LLC

PO Box 454 Barker, Tx 77413

Emergency Phone: 866.417.0078

Fax: 281-579-6876

## 2. HAZARD IDENTIFICATION

#### **OSHA/HCS Status**

This material is considered hazardous by the OSHA Hazard

#### **OSHA/HCS Status**

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

#### **GHS Classification**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 2), H401

## GHS Label elements, including precautionary statements

Pictogram:



 $\rangle \langle \!\! \ \downarrow \!\!\! \rangle$ 

Signal word: Warning

#### Hazard statement(s):

H302 : Harmful if swallowed. H319 : Causes serious eye irritation.

H411: 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 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 : Rinse mouth.

P337+P313 If eye irritation persists : Get medical advice/attention.

P391 : Collect spillage.

## Hazards not other classified (HNOC) or not covered by GHS

none

# 3. COMPOSITION/INFORMATION ON INGREDIENT

**Synonyms :** t-Octylphenoxypolyethoxyethanol 4-(1,1,3,3-Tetramethylbutyl) phenyl-polyethylene glycol Polyethylene glycol tert-octylphenyl

Component	Classification	Concentration
p-tertiary-Octylphenoxy polyethyl alcohol Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
CAS No	9002-93-1	90-100%

## 4. FIRST AID MEASURES

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

Inhalation: 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:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

#### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Further information: Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precaution:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precaution:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for contaminant and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precaution for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Condition for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: Store between the following temperatures: 20 to 25°C (68 to 77°F).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limits: none

**Appropriate engineering controls**: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 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:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:** Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

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

## 9. PHYSICIAL AND CHEMICAL PROPERTIES

#### Appearance:

Form Liquid

Color Clear to slightly hazy. Colorless

## Safety data:

pH 4 - 6.8

Melting point no data available Freezing point no data available Boiling point no data available

Flash point Closed cup: >109.85°C (229.7°F)

Ignition temperature no data available
Auto-ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Vapor pressure < 0.13kPa (<1mm Hg) room temperature

Density 1.008

Water solubility Easily soluble in water Partition coefficient: no data available

n-octanol/water

Relative vapor density no date available

Odor Odorless

Odor threshold no data available Evaporation rate no data available

## 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

no data available.

#### Condition to avoid

Heat, flames and sparks.

## Materials to avoid

no data available.

## Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

48 hours

48 hours

48 hours

## 11. TOXICOLOGICAL INFORMATON

#### **Acute Toxicity**

Oral LD50

Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1 ,1,3,3-tetramethylbutyl)phenyl

]-ω-hydroxy-Inhalation

LD50 Oral - rat - 1900 mg/kg

Eyes- Mild irritant, Rabbit 15 mg Eyes - Severe irritant, Rabbit 1 percent

Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1 ,1,3,3-tetramethylbutyl)phenyl

]-ω-hydroxy-

Dermal LD50

Dimethyl Sulfoxide - LD50 Dermal - rabbit - > 5,000 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Mutagenicity (Germ cell mutagenicity)

no data available

Carcinogenicity

no date available

Reproductive toxicity

no known significant effects or critical hazards.

**Teratogenicity** 

no known significant effects or critical hazards.

Specific target organ toxicity—single exposure (GHS)

no data available

Specific target organ toxicity—repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if swallowed. Ingestion

May be harmful if absorbed through skin. Causes skin irritation. Skin

Causes eye irritation Eyes **Aggravated Medical Condition** 

Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed

through skin and may carry such materials into the body.

Synergistic effects

no known significant effects or critical hazards.

Additional information RTECS: not available

12. ECOLOGICAL INFORMATION

**Toxicity** 

Product/ingredient name Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1

,1,3,3-tetramethylbutyl)phenyl

]-ω-hydroxy-

Acute EC50 210 µg/l Fresh water 96 hours Algae - Pseudokirchneriella

subcapitata

Acute LC50 10800 µg/l Marine

water Crustaceans - Pandalus

montagui - Adult

Acute LC50 8600 µg/l Fresh

water Daphnia - Daphnia magna -

Neonate

Acute LC50 11.2 mg/l Fresh water Glycols, polyethylene, mono (p-(1,1,3,3-tetramethylbutyl)

Daphnia - Daphnia magna -

Neonate

96 hours Acute LC50 4500 µg/l Fresh water

Persistence and degradability

no data available

phenyl) ether

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effect

no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. TRANSPORT INFORMATION

#### DOT(US)

UN Number Not regulated

Proper shipping name – Glass – Packing group –

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

## 15. REGULATORY INFORMATION

#### **United States**

HCS Classification: not listed

TSCA 8(a) Pair : Glycols, polyethylene. Mono(p-(1,1,3,3-tetramethyl)phenyl

ether

TSCA 8(a) IUR exempt/Partial exemption: all components are listed

or exempted

United States Inventory (TSCA 8b) : not determined SARA 302 TPQ : ethylene oxide 0-0.1%, EHS-Yes , lbs-1000

SARA 304 RQ: ethylene oxide 0-0.1% EHS-Yes, lbs-10 111111111.1 lbs/5044444.4kg(1231609.3 gal/4662148.3L)

SARA 311/312 Immediate health hazard

Poly(oxy-1,2-ethanediyl),  $\alpha\text{-[}(1,1,3,3\text{-}\phantom{0}7\text{-}10\,\%$  , Immediate health hazard

tetramethylbutyl)phenyl]-ω-hydroxy-

Clean Air Act Section 112(b) : not listed

Hazardous air pollutants (HAPs)

Clean Air Act Section 602 : not listed

Class I substances

Clean Air Act Section 602 : not listed

Class II substances

DEA List I Chemicals : not listed

(Precursor chemicals)

## **States Regulation**

Massachusetts: None of the components are listed New York: None of the components are listed New Jersey: None of the components are listed Pennsylvania: None of the components are listed

California Prop. 65 Components:

**WARNING:** This product contains less than 0.1% of a chemical known to

the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the

1,4-dioxane

Cancer cause - Yes. No significant level- 30 µg/day (ingestion) 30 µg/day (inhalation)

ethylene oxide

Cancer cause - Yes, Reproductive -Yes

No significant level - 2  $\mu g/day$  (ingestion)

2 μg/day (inhalation)

Maximum acceptable -20 µg/day (ingestion)

## Canada

All components are listed or exempted

Canadian lists

Canadian NPRI: None of the components are listed CEPA Toxic substances: None of the components are listed

## **International Regulation**

Australia (AICS):
China Inventory (IECSC):
Japan Inventory:
All components are listed or exempted.

New Zealand Inventory of Chemicals (NZloC):

All components are listed or exempted.

Philippines Inventory (PICCS): All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined. Taiwan inventory (CSNN): Not determined.

## **HIMS Rating:**

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 1
Physical hazards: 0

#### **NFPA Rating:**

Health Hazard: 2
Fire: 1
Reactivity Hazard: 0

#### 16. OTHER INFORMATION

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS: GenDEPOT LLC Safety Department