

## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

**CAS Number:** 9002-93-1  
**Product Name:** Thamesurf X-45  
**Revision Date:** Sep 28, 2021 **Date Printed:** Oct 01, 2021  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** Thames River Chemical Corp.  
**Address:** 5230 Harvester Road Burlington, ON, CA, L7L 4X4  
**Emergency Phone:** CHEMTREC (800) 424-9300  
**Information Phone Number:** 905-681-5353  
**Fax:** 905-681-5377  
**Product/Recommended Uses:** For laboratory or industrial use only.

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Acute aquatic toxicity - Category 1  
Acute toxicity Oral - Category 4  
Chronic aquatic toxicity - Category 1  
Serious Eye Damage - Category 1  
Skin Irritation - Category 2

### Pictograms



### Signal Word

Danger

### Hazard Statements - Health

Harmful if swallowed  
Causes serious eye damage  
Causes skin irritation

### Hazard Statements - Environmental

Very toxic to aquatic life with long lasting effects

### Precautionary Statements - General

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

### Precautionary Statements - Prevention

Avoid release to the environment.

Wash/Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

Collect spillage.

IF SWALLOWED: Call a POISON CENTER or 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 or doctor.

IF ON SKIN: Wash with plenty of water and soap.

Specific treatment (see first-aid on the SDS).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

### Precautionary Statements - Storage

No precautionary statement available.

### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

### Physical Hazards Not Otherwise Classified

No data available.

### Health Hazards Not Otherwise Classified

No data available.

## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0009002-93-1	TRITON X-100 SURFACTANT	75% - 100%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality or to reflect batch to batch variation.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration.

### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

### Skin Contact

Wash contact areas with soap and water.

Get medical advice/attention.

### Ingestion

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

### Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

## SECTION 5) FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical, carbon dioxide, water spray, fog or foam

### Specific Hazards in Case of Fire

Oxides of carbon.

### Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Prevent spreading of vapors through sewers, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## SECTION 7) HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition

### 7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store in a well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Keep container tightly closed in a dry and well-ventilated place.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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 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: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

### 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).

### Appropriate Engineering Controls

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

Chemical Name	CANsmg	CANspmm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	ACGIH Carcinogen	ACGIH Notations
No applicable chemical	-	-

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density	9.01 lb/gal
Specific Gravity	1.08
Appearance	Clear liquid,colorlesslight yellow
Odor Description	Characteristic
Odor Threshold	No data available
pH	9.70
Melting Point	6.00
Low Boiling Point	200.00
High Boiling Point	N/A
Flash Point	251.00 °C
Vapor Pressure	<1.33
Vapor Density	10 air = 1
Evaporation Rate	no data available
Upper Explosion Level	No data available
Lower Explosion Level	No data available
Water Solubility	highly soluble
Coefficient Water/Oil	No data available
Viscosity	No data available

## SECTION 10) STABILITY AND REACTIVITY

### Reactivity

No data available.

### Stability

Stable under normal storage and handling conditions.

### Conditions to Avoid

No data available

### Incompatible Materials

Strong acid, strong alkali, strong oxidizing materials.

### Hazardous Decomposition Products

Carbon monoxide & Carbon dioxide

**Acute Toxicity**

LD50 Oral - Rat - 1,900 - 5,000 mg/kg Remarks: (External MSDS) The value is given in analogy to the following substances: Inhalation: No data available LD50 Dermal - Rabbit - > 3,000 mg/kg Remarks: (External MSDS) The value is given in analogy to the following substances: No data available

Harmful if swallowed

**Aspiration Hazard**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity**

No data available Mutagenicity (mammal cell test): Mouse lymphoma test Result: negative

Based on available data, the classification criteria are not met.

**Reproductive Toxicity**

Based on available data, the classification criteria are not met.

**Respiratory/Skin Sensitization**

Sensitisation test: - Human Result: negative

Based on available data, the classification criteria are not met.

**Serious Eye Damage/Irritation**

Eyes - Rabbit Result: Risk of serious damage to eyes. (Draize Test) Risk of corneal clouding.

Causes serious eye damage

**Skin Corrosion/Irritation**

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

Causes skin irritation

**Specific Target Organ Toxicity - Repeated Exposure**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

Based on available data, the classification criteria are not met.

**Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

## SECTION 12) ECOLOGICAL INFORMATION

**Bioaccumulative Potential**

No data available.

**Toxicity**

Toxicity to fish semi-static test LC50 - Leuciscus idus (Golden orfe) - 0.26 mg/l - 96 h (OECD Test Guideline 203) Remarks: The value is given in analogy to the following substances:

Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 0.011 mg/l - 48 h Remarks: (ECOTOX Database)

Toxicity to algae : static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1.9 mg/l - 96 h .

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

**Mobility in Soil**

No data available.

## Bioaccumulative Potential

No data available.

## Persistence and Degradability

Biodegradability aerobic - Exposure time 28 d.  
Chemical Oxygen Demand (COD): 2.19 mg/g.

## 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. Causes endocrine disruption. Discharge into the environment must be avoided.

## Results of the PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

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

### Transport Canada Information

UN Number: UN3082  
UN Proper shipping name: Environmentally hazardous,liquid, N.O.S (Ethoxylated alcohols)  
Class: 9  
PG: III

Note: Not regulated for U.S ground in non-bulk (119 gallons)

### U.S. DOT Information

Not regulated

### IMDG Information

UN Number: UN3082  
UN Proper shipping name: Environmentally hazardous,liquid, N.O.S (Ethoxylated alcohols)  
Class: 9  
PG: III

Note: Not regulated for U.S ground in non-bulk (119 gallons)

### IATA Information

UN Number: UN3082  
UN Proper shipping name: Environmentally hazardous,liquid, N.O.S (Ethoxylated alcohols)  
Class: 9  
PG: III

Note: Not regulated for U.S ground in non-bulk (119 gallons)

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0009002-93-1	TRITON X-100 SURFACTANT	75% - 100%	DSL,TSCA,REACH_SVHC - REACH_Substances of Very High Concern

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-

Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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