

# SPI Supplies Division

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: August 14, 2015

**SPI #09911-AB, 09912-RA**  
**Triton X-100 Aqueous Solution**

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## Section 1: Identification

Chemical Name/Synonyms... Triton X-100  
Polyethylene glycol octylphenol ether  
Water

Emergencies  
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...  
Worldwide phone: 1-(703)-527-3887  
Worldwide FAX: 1-(703)-741-6090  
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #09911-AB, 09912-AB  
Synonyms..... Triton X-100 in Aqueous Solution  
Polyethylene glycol octylphenol ether in Aqueous Solution

CAS#'s 7732-18-5; 9036-19-5; 25322-68-3;

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## Section 2: Hazard Identification

### HAZARDOUS CLASSIFICATION

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

Eye irritation, Category 2A  
Acute Toxicity, Category 3  
Acute Aquatic Toxicity, Category 3

Pictogram:



Signal word: Warning

Hazard statements:  
H319: Causes serious eye irritation  
H412: Harmful to aquatic life with long lasting effects

Precautionary statements:  
P264: Wash skin thoroughly after handling

P273: Avoid release to the environment  
P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+313: If eye irritation persists get medical advice/attention  
P501: Dispose of contents/container to and approved disposal facility

Hazardous Material Information System USA  
Health..... 2  
Fire Hazard..... 1  
Reactivity..... 0  
Personal Protection.....

NFPA Rating (estimated)  
Health..... 2  
Flammability..... 1  
Reactivity..... 0

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### Section 3: Composition

Component Name	CAS #	Percent	EINECS/ELINCS
Triton X-100	9036-19-5	0.08-0.97%	n/a
	25322-68-3	0.002-0.03%	n/a
Water	7732-18-5	99.02-99.9%	231-791-2

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### Section 4: First Aid Measures

**Eyes:** Flush eyes with copious amounts of water for at least 15 minutes, holding the eyelids open. Seek medical attention.

**Skin:** Immediately wash with plenty of soap and water. Flush skin with copious amounts of water for at least 15 minutes. If irritation develops or persists seek medical attention. Remove all contaminated clothing and wash before reuse.

**Ingestion:** Do not induce vomiting. Wash out mouth with water, provided person is conscious. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Seek medical attention.

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention, especially if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

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### Section 5: Fire Fighting Measures

**General Information:** Wear self contained breathing apparatus MSHA/NIOSH approved or equivalent, and protective clothing to prevent contact with skin and eyes.

**Extinguishing Media:** Water spray, CO<sub>2</sub>, Dry chemical powder, Appropriate foam.

**Unusual Fire and Explosive Hazards:** Emits toxic Fumes under fire conditions. Foam and water spray are effective, but may cause frothing.

**Flash Point:** >251°C (485°F) Pensky-Maartens Closed Cup ASTM D93  
290°C (555°F)Cleveland Open Cup ASTM D92

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## Section 6: Accidental Release Measures

**General Information:** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

**Spills/Leaks:** Absorb on sand, vermiculite, or dry lime/soda ash. Pickup, keep in closed container and hold for waste disposal. Ventilate area and wash site after material pickup is complete.

**Environmental Precautions:** Avoid contaminating water supply. Do not allow material to enter drains or water courses

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## Section 7: Handling and Storage

**Handling:** Wash thoroughly after handling. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid repeated or prolonged exposure. Use with adequate ventilation.

**Storage:** Store in tightly closed container in a cool well-ventilated area away from incompatible substances. Do not store in direct sunlight.

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## Section 8: Exposure Controls and Personal Protection

### Engineering Controls:

Safety shower and eye wash must be available. Use with adequate ventilation.

### Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
	n/a	n/a	n/a

**OSHA Vacated PELs:** n/a

### Personal Protective Equipment:

Wear self-contained breathing apparatus MSHA/NIOSH approved or equivalent, and protective clothing to prevent contact with skin and eyes.

**Eyes:**Chemical Splash Goggles

**Skin:** Wash thoroughly after handling. Wear appropriate gloves to avoid skin contact.

**Clothing:** Wear protective clothing to prevent contact with skin.

**Respirators:**Use government approved respirator, following OSHA regulations found in 29 CFR 1910.134 or European Standard #N149.

### Engineering Controls:

Eye wash and safety shower required. Mechanical exhaust to keep below exposure limits required.

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## Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear to slightly hazy  
**Odor:** aromatic  
**pH:** 6-8  
**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Evaporation Rate:** 0.36 (Water)  
**Viscosity:** n/a  
**Boiling Point:** 99.9°C (water)  
**Freezing/Melting Point:** -.01°C (water)  
**Autoignition Temperature:** n/a  
**Flash Point:** >230 °F  
**Decomposition Temperature:** n/a  
**Explosion Limits, Lower:** n/a  
**Upper:** n/a  
**Solubility in water:** Soluble in Water  
**Specific Gravity/Density:** 1.07  
**Molecular Formula:** Not applicable

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## Section 10: Stability and Reactivity

**Chemical Stability:** Stable

**Conditions to Avoid:** Exposure to light, air or water.

**Incompatibility with Other Materials:** Strong acids, Strong bases, Oxidizing Agents

**Hazardous Decomposition of Products:** Carbon monoxide, Carbon dioxide

**Hazardous Polymerization:** Will not occur

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## Section 11: Toxicological Information

**RTECS#:**

N/a

**CAS#:**

**LD<sub>50</sub>/LC<sub>50</sub> Information:**

N/a

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP or CA Prop 65,

**Teratogenicity:** Not available

**Reproductive Effects:** Not available

**Neurotoxicity:** Not available

**Mutagenicity:** Not available

**Other Studies:** Not available

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## Section 12: Ecological Information

**Exotoxicity:** Not available

**Environmental Fate:** Not available

**Aquatic:** Not available

**Atmospheric:** Not available

**Physical:** Not available

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## Section 13: Disposal Considerations

Observe all federal, state and local environmental regulations.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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## Section 14: Transport Information

**US DOT Hazard Class:** Not available

**IATA (for international shipments):** Not available

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## Section 15: Regulatory Information

**TSCA:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**CERCLA Section 103:**

This product contains the following substances subject to CERCLA Section 103 reporting requirements and are listed in 40 CFR Part 302.4:

Component	CAS#	Amount
Glycol Ethers	Not available	<=2.0000%
1,4-Dioxane	123-91-1	<=0.0055%
Ethylene oxide	75-21-8	<=0.0010%

**SARA:**

**Section 302 (RQ)**

None of the chemicals has an RQ.

**Section 302 (TPQ)**

None of the chemicals in this product has a TPQ.

**SARA Codes**

Delayed (Chronic) Health Hazard, Immediate (Acute) Health Hazard

**Section 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act 1986 and 40 CFR Part 372

Component	CAS#	Amount
Glycol Ethers	Not available	<=2.0000%

**State (Individual states in the USA):**

	Component	CAS#	Amount
Pennsylvania	Glycol Ethers	Not available	<=2.0000%
Massachusetts	1,4-Dioxane	123-91-1	<=0.0055%
Massachusetts	Ethylene Oxide	75-21-8	<=0.0010%

**California No Significant Risk Level:****California Prop. 65:**

Component	CAS#	Amount
1,4 Dioxane	123-91-1	<=0.0055%

**California SCAQMD Rule 443.1:**

VOC: Vapor pressure <0.01 mm Hg @20° C 0 g/L

## European/International Regulations:

Existing polymer according to the definition in the 7<sup>th</sup> Amendment to Directive 67/548/EEC and all components of this product are on the EINECS inventory or are exempt from EINECS inventory requirements.

Chemical Name: Octylphenoxy polyethoxy ethanol nonionic surfactant

## European Labeling in Accordance with EC Directives

Hazard Symbols: Xn Harmful

## Risk Phrases:

- R 22 Harmful if swallowed.
- R 41 Risk of serious damage to eyes.
- R 52 Harmful to aquatic organisms
- R 53 May cause long-term adverse effects in the aquatic environment.

## Safety Phrases:

- S 7 Keep container tightly closed.
- S 25 Avoid contact with eyes.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 39 Wear eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
- S 60 This material and its container must be disposed of as hazardous waste.

**Canada DSL/NDSL:****Canadian Ingredient Disclosure List:**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

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**Section 16: Other Information****Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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