

SPI Supplies Division**Structure Probe, Inc.**

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Manufacturer's CAGE: 1P573



Material Safety Data Sheet

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

Section 1: Identification

Date Effective..... January 8, 2009
(most recent revision)

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

NFPA Rating:

(estimated) Health: n/a; Flammability: n/a; Reactivity: n/a

Section 2: 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

Section 3: Hazard Identification

Emergency overview:

Harmful. Skin and eye irritant. Harmful if swallowed.
Risk of serious damage to eyes.

Appearance: Clear liquid.

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

Warning!

Harmful. Skin and eye irritant. Harmful if swallowed.
Risk of serious damage to eyes.

Target Organs: Eyes

Potential Health Effects

Eye: Causes severe eye irritation. Risk of serious damage to eyes.

Skin: May cause skin irritation. Possible sensitizer.

Ingestion: May cause gastro-intestinal irritation, accompanied by nausea, vomiting and diarrhea. Harmful if swallowed.

Inhalation: May cause respiratory tract irritation.

Chronic: Possible skin sensitizer.

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.

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, CO2, 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.

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.

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.

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.

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

Molecular Weight: Not applicable

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

Section 11: Toxicological Information

RTECS#:

n/a

CAS#:**LD50/LC50 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

Section 12: Ecological Information

Exotoxicity: Not available**Environmental Fate:** Not available**Aquatic:** Not available**Atmospheric:** Not available**Physical:** Not available

Section 13: Disposal Considerations

Observe all federal, state and local environmental regulations.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

US DOT Hazard Class: Not available

IATA (for international shipments): Not available

Section 15: Regulatory Information

United States:

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 mmHg @20° C 0 g/L

European/International Regulations:

Existing polymer according to the definition in the 7th 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.

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 of fluids. This product is intended for external contact only with human skin.

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