

SAFETY DATA SHEET

Product name: TRITON™ X-405 70% Surfactant SDS Number: 10388774

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: TRITON™ X-405 70% Surfactant

Recommended use of the chemical and restrictions on use Identified uses: Coatings product

COMPANY IDENTIFICATION

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918

EMERGENCY TELEPHONE NUMBER InfoTrac: 800-535-5053

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Color

Odor

Pale yellow clear

Mild odor

liquid

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

GHS Classification

Classified as hazardous according to regulatory criteria. Short-term (acute) aquatic hazard - Category 3 Long-term (chronic) aquatic hazard - Category 3

GHS label elements

Hazard statements

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

Avoid release to the environment.

Disposal Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Component	CASRN	Concentration
Octylphenoxypolyethoxyethanol	9036-19-5	>= 50.0 - < 70.0 %
Polyethylene glycol	25322-68-3	>= 1.0 - < 10.0 %

4. FIRST AID MEASURES

Description of first aid measures Inhalation: Move to fresh air.

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire...

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: No data available

Unusual Fire and Explosion Hazards: Material can splatter above 100C/212F.. Dried product can burn..

Advice for firefighters

Fire Fighting Procedures: No data available

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit..

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods and materials for containment and cleaning up: Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

Conditions for safe storage: Keep from freezing - product stability may be affected. STIR WELL BEFORE USE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Polyethylene glycol	US WEEL	TWA aerosol	10 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Personal protective equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility.

Individual protection measures

Eye/face protection: Eye protection worn must be compatible with respiratory protection system employed. Use safety glasses with side shields (ANSI Z87.1or approved equivalent). **Skin protection**

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Polyvinyl chloride

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Color Odor Odor Threshold pH Melting point/range Freezing point Boiling point (760 mmHg) Flash point liquid Pale yellow clear Mild odor No data available 8.0 (5% solution) -9.00 °C No data available 101.00 °C Noncombustible

Evaporation Rate (Butyl Acetate = 1)	0.70
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	14.65 mmHg at 20 °C
Relative Vapor Density (air = 1)	0.6200
Relative Density (water = 1)	1.1000
Water solubility	completely soluble
Partition coefficient: n- octanol/water	No data available
Autoignition Temperature	No data available
Decomposition temperature	No data available
Dynamic Viscosity	490 mPa.s
Kinematic Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
Percent volatility	31.00 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: None known.

Product will not undergo polymerization. Stable

Conditions to avoid: No data available

Incompatible materials: Avoid contact with the following: Strong oxidizing agents Strong acids materials reactive with hydroxyl compounds

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

Acute oral toxicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

LD50, Rat, > 5,000 mg/kg

Polyethylene glycol

Typical for this family of materials. LD50, Rat, > 10,000 mg/kg Estimated.

Acute dermal toxicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

LD50, Rabbit, > 5,000 mg/kg

Polyethylene glycol Typical for this family of materials. LD50, Rabbit, > 20,000 mg/kg

Acute inhalation toxicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

The LC50 has not been determined.

Polyethylene glycol

LC50, Rat, 6 Hour, dust/mist, > 2.5 mg/l No deaths occurred at this concentration.

Skin corrosion/irritation

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

Brief contact is essentially nonirritating to skin. Prolonged contact may cause slight skin irritation with local redness.

Polyethylene glycol

Prolonged exposure not likely to cause significant skin irritation.

Serious eye damage/eye irritation

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

May cause slight temporary eye irritation. Corneal injury is unlikely.

Polyethylene glycol

May cause slight temporary eye irritation. Corneal injury is unlikely.

Sensitization

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

Did not cause allergic skin reactions when tested in humans.

For respiratory sensitization: No relevant data found.

Polyethylene glycol

For this family of materials: Did not cause allergic skin reactions when tested in humans. For this family of materials, sensitization studies done in guinea pigs have been negative.

For respiratory sensitization: No data available

Specific Target Organ Systemic Toxicity (Single Exposure)

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Polyethylene glycol

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Aspiration Hazard

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

Based on physical properties, not likely to be an aspiration hazard.

Polyethylene glycol

Based on physical properties, not likely to be an aspiration hazard.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

In animals, effects have been reported on the following organs: Liver.

Polyethylene glycol

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

The use of topical applications containing this material may not be appropriate in severely burned patients.

This product should not be used in patients with kidney disease; these effects would not result from normal industrial handling.

Carcinogenicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

No relevant data found.

Polyethylene glycol

Polyethylene glycols did not cause cancer in long-term animal studies.

Teratogenicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

Did not cause birth defects or any other fetal effects in laboratory animals.

Polyethylene glycol

Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

No relevant data found.

Polyethylene glycol

In animal studies, did not interfere with reproduction.

Mutagenicity

Product test data not available.

Information for components:

Octylphenoxypolyethoxyethanol

In vitro genetic toxicity studies were negative.

Polyethylene glycol

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Additional information

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

General Information

There is no data available for this product.

Ecotoxicity

Octylphenoxypolyethoxyethanol

Acute toxicity to fish

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). LC50, Pimephales promelas (fathead minnow), 96 Hour, > 60 mg/l

Acute toxicity to aquatic invertebrates

LC50, Daphnia magna, 48 Hour, > 1,000 mg/l

Toxicity to bacteria

IC50, Bacteria, 16 Hour, Respiration rates., 1,000 - 2,400 mg/l

Polyethylene glycol

Acute toxicity to fish For this family of materials: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), 48 Hour, > 10,000 mg/l

Persistence and Degradability

Octylphenoxypolyethoxyethanol

Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Theoretical Oxygen Demand: 1.9 - 1.95 mg/mg Estimated.

Chemical Oxygen Demand: 2.0 mg/mg Estimated.

Polyethylene glycol

Biodegradability: For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Fail **Biodegradation:** 48 % **Exposure time:** 28 d

Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand: 1.67 - 1.77 mg/mg

Chemical Oxygen Demand: 1.81 mg/mg

Bioaccumulative Potential

Octylphenoxypolyethoxyethanol

Bioaccumulation: No relevant data found.

Polyethylene glycol

Bioaccumulation: For this family of materials: No bioconcentration is expected because of the relatively high water solubility.

Mobility in Soil

Octylphenoxypolyethoxyethanol

No relevant data found.

Polyethylene glycol

No data available.

Results of PBT and vPvB assessment

Octylphenoxypolyethoxyethanol

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Polyethylene glycol

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects

Octylphenoxypolyethoxyethanol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Polyethylene glycol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport: Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code Not regulated for transport Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

The following statutes, regulations and standards have the related prescribes on chemicals in terms of safe use, storage, transportation, loading and unloading, classification and symbol etc. Provisions on the Environmental Administration of New Chemical Substances. The Regulation on Chemicals Safe Use at Working Site Law on Prevention and Control of Environmental Pollution Caused by Solid Waste. Regulation on the Safety Management of Hazardous Chemicals Catalogue of Hazardous Chemicals: Not applicable General rule of classification and hazard communication of chemicals (GB 13690) Occupational Exposure Limits for Hazardous Agent in The workshop Chemical Hazardous

Occupational Exposure Limits for Hazardous Agent in The workshop Chemical Hazardous Agents(GBZ 2.1).

China. Inventory of Existing Chemical Substances in China (IECSC) (IECSC)

All intentional components are listed on the inventory, are exempt, or are supplier certified.

16. OTHER INFORMATION

Revision

Identification Number: 10388774 / A160 / Issue Date: 17.02.2020 / Version: 2.1 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Logona	
TWA	8-hr TWA
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL -Domestic Substances List (Canada): ECx - Concentration associated with x% response: ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG -Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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