

**Safety Data Sheet****TRITON™ X-405 (70% ACTIVES) SURFACTANT**

Version 1.7

Revision Date: 05/09/2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product name** : TRITON™ X-405 (70% ACTIVES) SURFACTANT**Recommended use of the chemical and restrictions on use**

Recommended use : Surfactant

**Supplier or Repackaging Details****Company** : Univar Solutions USA  
**Address** : 3075 Highland Pkwy Suite 200  
Downers Grove, IL 60515  
United States of America (USA)**Manufactured By** : The Dow Chemical Company**Emergency telephone number:**

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

**Additional Information:** : Responsible Party: Product Compliance Department  
E-mail: SDSNA@univarsolutions.com  
SDS Requests: 1-855-429-2661  
Website: www.univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation : Category 2B

**GHS label elements**

Signal word : Warning

Hazard statements : H320 Causes eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

| CAS-No.    | Chemical name                                     | Weight percent |
|------------|---------------------------------------------------|----------------|
| 9036-19-5  | Polyethylene glycol mono(tert-octylph-enyl) ether | 70 - 90        |
| 25322-68-3 | Polyethylene glycol                               | 5 - 10         |

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

**Safety Data Sheet****TRITON™ X-405 (70% ACTIVES) SURFACTANT**

Version 1.7

Revision Date: 05/09/2024

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**SECTION 4. FIRST AID MEASURES**

- |                         |                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.                                                                                                                                                                                                                                                            |
| If inhaled              | : Move to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                                                                                                                                                                                                |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                                                                                                                             |
| In case of eye contact  | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.<br>Take victim immediately to hospital. |
| If swallowed            | : Clean mouth with water and drink afterwards plenty of water.<br>Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital.                                                                                                                                                         |

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**SECTION 5. FIREFIGHTING MEASURES**

- |                                               |                                                                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Carbon dioxide (CO2)<br>Dry chemical<br>Foam<br>Water spray                                                                                              |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                    |
| Specific hazards during fire-fighting         | : During a fire, irritating or toxic decomposition products may be generated.<br>Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products                 | : Carbon oxides                                                                                                                                            |
| Specific extinguishing methods                | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.                                        |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.                                                       |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                     |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Safety Data Sheet

### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 24 Months

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| CAS-No.    | Components          | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis   |
|------------|---------------------|----------------------------------|------------------------------------------------|---------|
| 25322-68-3 | Polyethylene glycol | TWA                              | 10 mg/m <sup>3</sup>                           | US WEEL |
|            |                     | TWA (aerosol)                    | 10 mg/m <sup>3</sup>                           | US WEEL |

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.
- Hand protection  
Material : chemical resistant
- Remarks : The suitability for a specific workplace should be discussed

## Safety Data Sheet

### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

|                          |   |                                                                                                                                                                                             |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye protection           | : | with the producers of the protective gloves.<br>Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.                                                       |
| Hygiene measures         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                                                                          |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                             |   |                                                                  |
|---------------------------------------------|---|------------------------------------------------------------------|
| Appearance                                  | : | liquid                                                           |
| Colour                                      | : | yellow                                                           |
| Odour                                       | : | mild                                                             |
| Odour Threshold                             | : | No data available                                                |
| pH                                          | : | 6 - 10.3 @ 20 - 25 °C (68 - 77 °F)                               |
| Freezing Point (Pour point)                 | : | -6 °C (21 °F)                                                    |
| Boiling Point (Boiling point/boiling range) | : | 101 °C (214 °F)<br>(1013 hPa)                                    |
| Flash point                                 | : | Not applicable                                                   |
| Evaporation rate                            | : | 0.70 - 0.79<br>(Butyl Acetate = 1)                               |
| Flammability (solid, gas)                   | : | No data available                                                |
| Upper explosion limit                       | : | No data available                                                |
| Lower explosion limit                       | : | No data available                                                |
| Vapour pressure                             | : | 15 - 17 mmHg @ 20 °C (68 °F)                                     |
| Relative vapour density                     | : | 0.62 @ 20 - 25 °C (68 - 77 °F)<br>(Air = 1.0)                    |
| Relative density                            | : | 1.076 - 1.10 @ 20 °C (68 °F)<br>Reference substance: (water = 1) |
| Density                                     | : | No data available                                                |
| Solubility(ies)                             | : | No data available                                                |
| Water solubility                            | : | completely soluble                                               |
| Solubility in other solvents                | : | No data available                                                |
| Partition coefficient: n-octanol/water      | : | No data available                                                |
| Auto-ignition temperature                   | : | No data available                                                |
| Thermal decomposition                       | : | No data available                                                |
| Viscosity                                   | : | No data available                                                |
| Viscosity, kinematic                        | : | 665 mm <sup>2</sup> /s @ 25 °C (77 °F)                           |

**Safety Data Sheet****TRITON™ X-405 (70% ACTIVES) SURFACTANT**

Version 1.7

Revision Date: 05/09/2024

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.                                                                                                      |
| Chemical stability                 | : Stable under normal conditions.                                                                                                                                  |
| Possibility of hazardous reactions | : No hazards to be specially mentioned.                                                                                                                            |
| Conditions to avoid                | : Keep away from heat, flame, sparks and other ignition sources.<br>Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. |
| Incompatible materials             | : Strong acids and strong bases<br>Strong oxidizing agents                                                                                                         |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Acute oral toxicity   | : Assessment: The substance or mixture has no acute oral toxicity   |
| Acute dermal toxicity | : Assessment: The substance or mixture has no acute dermal toxicity |

**Components:****9036-19-5:**

|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): 1,900 mg/kg<br>Assessment: The component/mixture is moderately toxic after single ingestion. |
| Acute inhalation toxicity | : Remarks: No data available                                                                               |
| Acute dermal toxicity     | : LD50 (Rabbit): > 2,000 mg/kg                                                                             |

**Skin corrosion/irritation****Product:**

Result: No skin irritation

**Components:****9036-19-5:**Species: Rabbit  
Result: Not irritating to skin**Serious eye damage/eye irritation****Product:**

**Safety Data Sheet****TRITON™ X-405 (70% ACTIVES) SURFACTANT**

Version 1.7

Revision Date: 05/09/2024

Result: Irritation to eyes, reversing within 7 days

**Components:****9036-19-5:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation****Components:****9036-19-5:**

Remarks: No data available

**Germ cell mutagenicity****Components:****9036-19-5:**

Germ cell mutagenicity - Assessment : Mutagenicity classification not possible from current data

**Carcinogenicity****Components:****9036-19-5:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

**IARC**

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

**OSHA**

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

**NTP**

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

**Reproductive toxicity****Components:****9036-19-5:**

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

## Safety Data Sheet

### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

#### SECTION 12. ECOLOGICAL INFORMATION

##### Ecotoxicity

###### Product:

Acute aquatic toxicity- Assessment : This product has no known ecotoxicological effects.

Chronic aquatic toxicity- Assessment : This product has no known ecotoxicological effects.

###### Components:

###### **9036-19-5:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 8.6 mg/l  
Exposure time: 48 h

Toxicity to algae : Remarks: No data available

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

##### Persistence and degradability

###### Components:

###### **9036-19-5:**

Biodegradability : Remarks: No data available

###### **25322-68-3:**

##### Bioaccumulative potential

No data available

##### Mobility in soil

No data available

##### Other adverse effects

###### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Safety Data Sheet****TRITON™ X-405 (70% ACTIVES) SURFACTANT**

Version 1.7

Revision Date: 05/09/2024

Toxic to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****DOT (Department of Transportation):** Not regulated as a dangerous good**IATA (International Air Transport Association):** Not regulated as a dangerous good**IMDG-Code:** Not regulated as a dangerous good**SECTION 15. REGULATORY INFORMATION****WHMIS Classification** : D2B: Toxic Material Causing Other Toxic Effects**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Serious eye damage or eye irritation**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

## Safety Data Sheet

### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

25322-68-3 Polyethylene glycol

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

##### Pennsylvania Right To Know

|            |                                                   |
|------------|---------------------------------------------------|
| 9036-19-5  | Polyethylene glycol mono(tert-octylph-enyl) ether |
| 7732-18-5  | Water                                             |
| 25322-68-3 | Polyethylene glycol                               |

##### New Jersey Right To Know

|            |                                                   |           |
|------------|---------------------------------------------------|-----------|
| 9036-19-5  | Polyethylene glycol mono(tert-octylph-enyl) ether | 60 - 90 % |
| 7732-18-5  | Water                                             | 30 - 50 % |
| 25322-68-3 | Polyethylene glycol                               | 0 - 5 %   |

#### The components of this product are reported in the following inventories:

|       |                                                          |
|-------|----------------------------------------------------------|
| TSCA  | : On TSCA Inventory                                      |
| DSL   | : All components of this product are on the Canadian DSL |
| AICS  | : On the inventory, or in compliance with the inventory  |
| NZIoC | : Not in compliance with the inventory                   |
| ENCS  | : On the inventory, or in compliance with the inventory  |
| KECI  | : On the inventory, or in compliance with the inventory  |
| PICCS | : On the inventory, or in compliance with the inventory  |
| IECSC | : On the inventory, or in compliance with the inventory  |

#### Special Notes:

: This product contains a chemical that is at or below California Propositions 65 Safe Harbor Level as determined by risk assessment., Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

## Safety Data Sheet

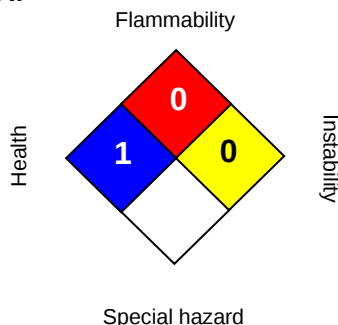
### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

#### SECTION 16. OTHER INFORMATION

##### NFPA:



##### HMIS III:

|                 |   |
|-----------------|---|
| HEALTH          | 1 |
| FLAMMABILITY    | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 05/09/2024

Legacy SDS: : R0383501

##### Material number:

16178741, 16215499, 16214078, 16177973, 16177203, 16145467, 16143940, 16143321, 16141033, 16140797, 16143297, 105363, 58922, 75299, 72889, 87886, 105966, 16070453, 21837, 644444, 584049, 574281, 71526, 105572, 72601, 91680, 55125, 73207, 105651, 148243

| Key or legend to abbreviations and acronyms used in the safety data sheet |                                                         |       |                                                     |
|---------------------------------------------------------------------------|---------------------------------------------------------|-------|-----------------------------------------------------|
| ACGIH                                                                     | American Conference of Government Industrial Hygienists | LD50  | Lethal Dose 50%                                     |
| AICS                                                                      | Australia, Inventory of Chemical Substances             | LOAEL | Lowest Observed Adverse Effect Level                |
| DSL                                                                       | Canada, Domestic Substances List                        | NFPA  | National Fire Protection Agency                     |
| NDSL                                                                      | Canada, Non-Domestic Substances List                    | NIOSH | National Institute for Occupational Safety & Health |
| CNS                                                                       | Central Nervous System                                  | NTP   | National Toxicology Program                         |
| CAS                                                                       | Chemical Abstract Service                               | NZIoC | New Zealand Inventory of Chemicals                  |
| EC50                                                                      | Effective Concentration                                 | NOAEL | No Observable Adverse Effect Level                  |
| EC50                                                                      | Effective Concentration 50%                             | NOEC  | No Observed Effect Concentration                    |
| EGEST                                                                     | EOSCA Generic Exposure Scenar-                          | OSHA  | Occupational Safety & Health                        |

## Safety Data Sheet

### TRITON™ X-405 (70% ACTIVES) SURFACTANT

Version 1.7

Revision Date: 05/09/2024

|        |                                                          |       |                                                                                      |
|--------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
|        | io Tool                                                  |       | Administration                                                                       |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit                                                           |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK    | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic                                                                   |
| GHS    | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act                                                   |
| >=     | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit                                                            |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act.                                        |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value                                                                |
| IECSC  | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average                                                                |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   | Lethal Concentration 50%                                 |       |                                                                                      |