

Triton™ X-100 Surfactant

Version 1.7 Revision Date: 11/13/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Triton™ X-100 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

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P305 + P351 + P338 + P310 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/ doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.



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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	90 - 100
25322-68-3	Polyethylene glycol	1 - 5

Actual concentration is withheld as a trade secret

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

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

Move to fresh air.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In case of contact, immediately flush eyes with plenty of water

for at least 30 minutes.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Take victim immediately to hospital.

If swallowed : Keep respiratory tract clear.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

If accidentally swallowed obtain immediate medical attention.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical

Carbon dioxide (CO2)

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Unsuitable extinguishing

media

Alcohol-resistant foam : High volume water jet

media Caasifia bazard

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: Irritating fumes or substances may form.

toxic fumes Carbon oxides

Nitrogen oxides (NOx)

Smoke

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : 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 ap-

plication 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.

Electrical installations / working materials must comply with

the technological safety standards.

Storage period : 24 Months

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
25322-68-3	Polyethylene glycol	TWA	10 mg/m3	US WEEL
		TWA (aerosol)	10 mg/m3	US WEEL

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

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 : Calculated 6 @ 5 % @ 20 - 25 °C (68 - 77 °F)

(as aqueous solution)

Freezing Point (Pour point) : Calculated 2 °C (36 °F)

Boiling Point (Boiling : Calculated > 200 °C (> 392 °F)

point/boiling range) (1013 hPa)

Flash point : 251 °C (484 °F)

Method: ASTM D 93, closed cup

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Evaporation rate : Calculated < 0.01

(Butyl Acetate = 1)

Flammability (solid, gas) : No data available Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Calculated < 0.01 mmHg @ 20 °C (68 °F)

Relative vapour density : > 1(Air = 1.0)

Relative density : 1.061 @ 20 °C (68 °F)

Reference substance: (water = 1)

Density : No data available

Solubility(ies)

Water solubility : completely soluble Solubility in other solvents : No data available

Partition coefficient: n- : log Pow: Estimated 2.7 @ 20 - 25 °C (68 - 77 °F)

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : Calculated 226 mm2/s @ 20 - 25 °C (68 - 77 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : No hazards to be specially mentioned.

tions

Hazardous polymerisation does not occur.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Do not allow evaporation to dryness.

Possible emission of gaseous decomposition products may

lead to a dangerous pressure build-up.

elevated temperatures

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents

Hazardous decomposition

products

: Aldehydes Ketones

Organic acids

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Components:

9036-19-5:

Acute oral toxicity : LD50 (Rat): 1,900 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

: Remarks: No data available Acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Components:

9036-19-5: Species: Rabbit

Result: Not irritating to skin

Serious eye damage/eye irritation

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 - Assess-

ment **IARC**

No component of this product present at levels greater than or

: Carcinogenicity classification not possible from current data.

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.

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Reproductive toxicity

Components:

9036-19-5:

Reproductive toxicity - As-

sessment

Fertility classification not possible from current data.

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

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

9036-19-5:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.2 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 8.6 mg/l

Exposure time: 48 h

: Remarks: No data available

Acute aquatic toxicity- As-

Toxicity to algae

sessment

: Toxic to aquatic life.

Chronic aquatic toxicity- As-

sessment

: 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

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Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection 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 infor-

mation

: No data available

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 Uni-

var 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

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 : Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

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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).

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 SOCMI 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

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

25322-68-3 Polyethylene glycol

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm.

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 : On the inventory, or 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

PHIL : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

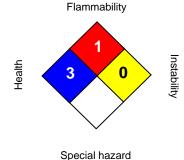
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SECTION16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
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.

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Legacy SDS: : R0383555, 100000002799

Material number:

16148743, 16144285, 16146818, 16144491, 16143320, 16141337, 16142515, 16141122, 16140646, 16134093, 16101026, 16084647, 16051045, 643540, 89276, 87893, 59292, 108023, 104877, 103804, 56518, 105974

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Govern- ment 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	

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io Tool		Administration
European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
Globally Harmonized System	RCRA	Resource Conservation Recovery Act
Greater Than or Equal To	STEL	Short-term Exposure Limit
Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
International Agency for Research on Cancer	TLV	Threshold Limit Value
Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
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
Lethal Concentration 50%		
	icals Association European Inventory of Existing Chemical Substances Germany Maximum Concentration Values Globally Harmonized System Greater Than or Equal To Inhibition Concentration 50% International Agency for Research on Cancer Inventory of Existing Chemical Substances in China Japan, Inventory of Existing and New Chemical Substances Korea, Existing Chemical Inventory Less Than or Equal To	European Oilfield Specialty Chemicals Association European Inventory of Existing Chemical Substances Germany Maximum Concentration Values Globally Harmonized System Greater Than or Equal To STEL Inhibition Concentration 50% International Agency for Research on Cancer Inventory of Existing Chemical Substances in China Japan, Inventory of Existing and New Chemical Substances Korea, Existing Chemical Inventory Less Than or Equal To WHMIS