

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

	1. Identification						
Product Name	Triton® X-405, 70% solution in water						
Cat No. :	AC215690000; AC215690010; AC215690025; AC215690050; AC215692500						
Synonyms	Polyoxyethylene(40) octylphenyl ether						
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.						
Details of the supplier of the safety	/ data sheet						
<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410						

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) Harmful to aquatic life with long lasting effects Other hazards Contains a known or suspected endocrine disruptor.

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Polyethylene glycol 4-(tert-octyl)	ohenyl ether	9002-93-1	70			
Water		7732-18-5	30			
	4. F	irst-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention immediately if irritation persists.					
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.					
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water. Get medical attention. If possible drink milk afterwards.					
Most important symptoms and	No information available.					
effects Notes to Physician	Treat symptomatically					
	5. Fire	e-fighting measures				
Suitable Extinguishing Media	Water spray. C	Carbon dioxide (CO ₂). Dry chemical. C	Chemical foam.			
Unsuitable Extinguishing Media	No information	available				
Flash Point	> 109 °C / :	> 228.2 °F				
Method -	No information	available				

Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impact	No data available No data available No information available No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Healt	h Flammability	Instability	Physical hazards	
1	1	0	N/A	
	6. Accidenta	Il release measures		

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.						
Environmental Precautions	See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage. Do not flush into surface water or sanitary sewer system.						
Methods for Containment and Cle Up	 an Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Prevent product from entering drains. Keep in suitable, closed containers for disposal. Do not flush into surface water or sanitary sewer system. 						
	7. Handling and storage						
Handling	Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.						
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Store indoors. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong reducing agents.						
8. E	Exposure controls / personal protection						
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.						
Engineering Measures	None under normal use conditions.						
Personal Protective Equipment							
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.						
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.						
Respiratory Protection	No protective equipment is needed under normal use conditions.						
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.						

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-4 °C / 24.8 °F
Boiling Point/Range	120 °C / 248 °F @ 760 mmHg
Flash Point	> 109 °C / > 228.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	19 hPa @ 20 °C
Vapor Density	0.6
Specific Gravity	1.080
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity								
Reactive Hazard None known, based on information available								
Stability		Stable under norm	nal conditions.					
Conditions to Avoid	I	Excess heat. Expo air or water.	osure to air. Expos	sure to light. Incom	patible products. E	xposure to moist		
Incompatible Materi	als	Strong oxidizing a	agents, Strong acid	s, Strong reducing	agents			
Hazardous Decomp	osition Pro	ducts None under norma	al use conditions					
Hazardous Polymer	ization	Hazardous polymo	erization does not	occur.				
Hazardous Reaction	าร	None under norma	al processing.					
		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information Oral LD50 Dermal LD50 Vapor LC50	-	Based on ATE da	ta, the classificatio	n criteria are not m n criteria are not m n criteria are not m	net. ATE > 2000 mg	g/kg.		
Component Informa						Inholation		
Componen Polyethylene gl		LD50 Oral 1800 mg/kg (Rat)		LD50 Dermal 16 g/kg (Rabbit)		Inhalation ot listed		
4-(tert-octyl)pheny	yl ether	>16 g/kg (Rat)				Ji listed		
Water		-		-		-		
Toxicologically Syn Products		No information av						
Delayed and Immed	late effects	as well as chronic effe	ects from short ar	na long-term expo	<u>osure</u>			
Irritation		May cause skin, e	eye, and respirator	y tract irritation				
Sensitization		No information av	ailable					
Carcinogenicity		The table below in	ndicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.		
Component	CAS No	o IARC	NTP	ACGIH	OSHA	Mexico		
Polyethylene glycol 4-(tert-octyl)phenyl	9002-93	-1 Not listed	Not listed	Not listed	Not listed	Not listed		
ether Water	7732-18-	-5 Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	1132-10	No information av						
Mutagenic Enects		NO INICITIATION AV	anable					
Reproductive Effect	S	No information av	ailable.					
	Developmental Effects No information available.							
Developmental Effe	CIS	No information av	allable.					

STOT - single exposure None known

STOT - single exposureNone knownSTOT - repeated exposureNone known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available delayed

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information					
Polyethylene glycol 4-(tert-octyl)phenyl ether	Group III Chemical	Not applicable	Not applicable					
Other Adverse Effects The tovicelegical properties have not been fully investigated								

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.			
Bioaccumulation/ Accumulation No information available.				
Mobility	. Will likely be mobile in the environment due to its water solubility.			
	13. Disposal considerations			

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a
hazardous waste. Chemical waste generators must also consult local, regional, and
national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT 	Not regulated			
TDG	Not regulated			
ΙΑΤΑ	Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Polyethylene glycol 4-(tert-octyl)phenyl ether	9002-93-1	Х	ACTIVE	XU
Water	7732-18-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Polyethylene glycol	9002-93-1	Х	-	-	Х	-		Х	Х	KE-33568
4-(tert-octyl)phenyl ether										
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Polyethylene glycol 4-(tert-octyl)phenyl ether	Endocrine disrupting properties (Article 57(f) - environment) Application date: July 4, 2019 Sunset date: January 4, 2021 Exemption - extended latest application and sunset date for the research,development and production of medicinal products or medical devices in view of their use for the diagnosis,treatment or prevention of the coronavirus disease (COVID-19)	-	SVHC Candidate list - 618-344-0 - Endocrine disrupting properties, Article 57f - environment

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/candidate-list-table

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Polyethylene glycol 4-(tert-octyl)phenyl ether	9002-93-1	Not applicable	Not applicable	Not applicable	Not applicable
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Polyethylene glycol 4-(tert-octyl)phenyl ether	9002-93-1	Not applicable	Not applicable	Not applicable	Not applicable
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS