

SAFETY DATA SHEET (SDS)

This safety data sheet complies with the requirements of:

COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006, Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Revision Date 21-Oct-2024 WAI2 - EGHS - EUROPEAN Revision Number 4

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name Diluted Triton™ X-100

Product No 654203

Unique Formula Identifier (UFI) Not applicable

REACH registration number Not applicable

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier Thermo Fisher Scientific

Robert-Bosch-Str. 163505 Langenselbold, GERMANY Tel.: +49 (6184) 90-6000

E-mail address wlp.techsupport@thermofisher.com

Made in USA

1.4. Emergency telephone number 24 Hour Emergency Phone Number

CHEMTREC®

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Classification - Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Signal Word

None

EUH210 - Safety data sheet available on request

Precautionary Statements

2.3. Other hazards

General Hazards

Contains a known or suspected endocrine disruptor Included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

Section 3: Composition/information on ingredients

Component	EC No	CAS No	Weight %	CLP Classification - Regulation (EC) No 1272/2008	REACH Reg. No
Water	EEC No. 231-791-2	7732-18-5	90 - 100%	Not classified	No information available
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethyl butyl)phenyl]omegahydroxy -		9002-93-1	0.1 - 1	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	No information available

Component	CAS No	Specific concentration limits (SCL's)	M-Factor	Component notes
Water	7732-18-5	-	-	-
Poly(oxy-1,2-ethanediyl),	9002-93-1	-	-	-
.alpha[4-(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				

 Product No 654203
 Document No. 210980-001
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Section 4: First aid measures

4.1. Description of first aid measures

General Advice Use first aid treatment according to the nature of the injury. For further assistance, contact

your local Poison Control Center. Show this safety data sheet to the doctor in attendance.

Eye Contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms

occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call

a physician or poison control center immediately.

use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

See section 11, See section 2 for more information

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

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

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required. Evacuate personnel to safe areas.

6.2. Environmental precautions

Environmental Precautions Vapors may accumulate to form explosive concentrations.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning UpSoak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Reference to Other Sections

Refer to protective measures listed in Sections 7 and 8

See Section 8 for information on appropriate personal protective equipment

See Section 12 for additional Ecological Information

See Section 13 for additional waste treatment information

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from direct sunlight.

7.3. Specific end use(s)

Specific Use(s)

Use as laboratory reagent

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

Product Name Revision Date 21-Oct-2024 Diluted Triton™ X-100

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Showers **Engineering Measures**

> Eyewash stations Ventilation systems

Personal protective equipment

Wear chemical splash goggles and face shield. If splashes are likely to occur:. Goggles. **Eye/face Protection**

Skin and body protection Wear protective gloves/protective clothing.

No protective equipment is needed under normal use conditions. In case of inadequate **Respiratory Protection**

ventilation wear respiratory protection.

Environmental exposure controls No information available

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid Clear **Appearance** None Odor

No information available **Odor Threshold**

pН 6.75 **PH Range** 5.5 - 8.0

Property Values Remarks • Method

Melting point/freezing point No information available **Boiling Point/Range** ~ 100 °C / 212 °F Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available

Water Solubility Soluble

Solubility in other solvents No information available Partition coefficient No information available

Autoignition Temperature -

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

Softening Point
Molecular Weight
VOC Content(%)
Density
No information available

Section 10: Stability and reactivity

10.1. Reactivity

No information available

10.2. Chemical stability

Stable under normal conditions

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Extremes of temperature and direct sunlight

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

Acute Toxicity

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	LD50 > 90 mL/kg (Rat)		
Poly(oxy-1,2-ethanediyl),	LD50 = 1800 mg/kg (Rat)		
.alpha[4-(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			

Skin Corrosion/Irritation No information available

Serious eye damage/eye irritation No information available

Sensitization No information available

Mutagenic Effects No information available

Carcinogenic effects No information available

Reproductive Effects No information available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Aspiration hazard No information available

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Harmful to aquatic organisms.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

No information available

12.6. Endocrine disrupting properties

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Poly(oxy-1,2-ethanediyl),	Group III Chemical	-	-
.alpha[4-(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			

12.7. Other adverse effects

Persistent Organic Pollutant
Ozone Depletion Potential

This product does not contain any known or suspected substance
This product does not contain any known or suspected substance

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Disposal should be in accordance with applicable regional, national and local laws and

Products regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Revision Date 21-Oct-2024

Product Name

Diluted Triton™ X-100

Section 14: Transport information

IMDG/IMO

14.1 UN-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot Regulated14.4 Packing GroupNot Regulated14.5 Marine PollutantNot Applicable

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

<u>ADR</u>

14.1. UN number	Not Regulated
14.2. UN proper shipping name	Not Regulated
14.3. Transport hazard class(es)	Not Regulated
14.4. Packing group	Not Regulated

ICAO

14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
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14.6 Special Provisions None

IATA

Not Regulated
Not Regulated
Not Regulated
Not Regulated
Not Applicable
None

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS), U.S.A. (TSCA).

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Water	7732-18-5	231-791-2	-	-	X	X	KE-35400	Χ	-
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	9002-93-1	-	-	-	Х	Х	KE-33568	Х	Х

	Component	CAS No	TSCA	TSCA Inventory notification -	DSL	NDSL	AICS	NZIoC	PICCS
				Active-Inactive					
	Water	7732-18-5	Х	ACTIVE	X	-	X	Х	Х
La	Poly(oxy-1,2-ethanediyl), lpha[4-(1,1,3,3-tetramethylbutyl	9002-93-1	Х	ACTIVE	Х	-	Х	Х	Х
Ľ)phenyl]omegahydroxy-								

Legend: X - Listed '-' - Not Listed

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

European Union

Authorisation/Restrictions according to EU REACH

Component	CAS No	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)
Water	7732-18-5	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	9002-93-1	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

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)
Poly(oxy-1,2-ethanediyl),	WGK2
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	
9002-93-1 (0.1 - 1)	

Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER

regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Poly(oxy-1,2-ethanediyl),	Prohibited and Restricted		
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]-	Substances		
.omegahydroxy-			
9002-93-1 (0.1 - 1)			

Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

NZIoC - New Zealand Inventory of Chemicals

Predicted No Effect Concentration (PNEC)

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

STEL STEL (Short Term Exposure Limit)

EC50 - Effective Concentration 50%

TWA - Time Weighted Average

LD50 - Lethal Dose 50%

Transport Association

ATE - Acute Toxicity Estimate

VOC - (volatile organic compound)

Ships

15.2. Chemical safety assessment

A Chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

Section 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

CAS - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

TWA TWA (time-weighted average) Ceiling Maximum limit value

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H401 - Toxic to aquatic life

Product No 654203

H411 - Toxic to aquatic life with long lasting effects

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.

Document No. 210980-001

EN

Issue Date No information available

Revision Date 21-Oct-2024

Reason for revision SDS sections updated.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet

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