

SAFETY DATA SHEET

1. Identification

Product identifier Triton X-100

Other means of identification

SDS Number

Recommended use Non-ionic surfactant.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name

Level 7 Chemical **Address** 253 Sturgis Rd

Conway, AR 72034

Main Telephone Number

1-855-927-1777

Website

www.level7chemical.com

1-800-424-9300 **Emergency #: CHEMTREC**

Emergency #: CHEMTREC 1-703-741-5970 (International Number - Call collect)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Category 4 Acute toxicity, oral

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards

Environmental hazards

Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary statement

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye Prevention

protection/face protection. Wear protective gloves. Avoid release to the environment.

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with Response

plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Collect spillage.

Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly Storage

closed. Store locked up. Store in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.

Disposal Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 98.04% of the mixture consists of component(s) of unknown acute dermal toxicity. 98.04% of the

mixture consists of component(s) of unknown acute inhalation toxicity.

Material name: Triton X-100

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Octylphenol ethoxylate		9002-93-1	100
Glycol Ethers as Defined by EPA (65 FR 47342, Aug 2, 2000)		Mixture	<2

Residuals

Chemical name	Common name and synonyms	CAS number	%
Ethylene Oxide		75-21-8	0.001

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments

Occupational Exposure Limits for residuals are listed in Section 8.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Do not use water jet as an extinguisher, as this will spread the fire.

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

During fire, gases hazardous to health may be formed.

Fire fighting

equipment/instructions

Specific methods General fire hazards Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Residuals	Туре	Value	
Ethylene Oxide (CAS 75-21-8)	STEL	5 ppm	
	TWA	1 ppm	
US. ACGIH Threshold Limit Value	ues		
Residuals	Туре	Value	
Ethylene Oxide (CAS 75-21-8)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Residuals	Туре	Value	
Ethylene Oxide (CAS 75-21-8)	Ceiling	9 mg/m3	
		5 ppm	
	TWA	0.18 mg/m3	
		0.1 ppm	

Biological limit values

ACGIH Biological Expo Residuals	osure Indices Value	Determinant	Specimen	Sampling Time
Ethylene Oxide (CAS 75-21-8)	5 μg/g	S-(2-hydroxyet hyl) mercapturic acid (HEMA)	Creatinine in urine	*
	5000 pmol/g	N-(2-hydroxyet hyl)-valine (HEV) hemoglobin adducts	Hemoglobin adducts	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical goggles. Face shield is recommended. Avoid contact with eyes. Provide an

emergency eye wash fountain and quick drench shower in the immediate work area.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear.

Physical state Liquid.

Form Liquid.
Color Pale yellow.
Odor Not available.
Odor threshold Not available.

pH 6 - 7 (5% DI water) Melting point/freezing point < 45 °F (< 7.22 °C)

Initial boiling point and boiling 215 - 225 °F (101.67 - 107.22 °C)

range

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)
Explosive limit - upper (%)

Not available.
Not available.

Vapor pressure < 5 mm Hg @ 68°F.

Vapor density < 1

Relative density Not available.

Solubility(ies)

Solubility (water) Dispersible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Not explosive. **Explosive properties** Not oxidizing. Oxidizing properties

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Stable Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Aluminum. Inorganic acids and bases.

Hazardous decomposition

products

Carbon monoxide. Organic compounds which may be toxic.

11. Toxicological information

Information on likely routes of exposure

No adverse effects due to inhalation are expected. Inhalation

Causes skin irritation. Skin contact

Causes serious eye irritation. Eye contact

Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Harmful if swallowed. Acute toxicity Causes skin irritation. Skin corrosion/irritation

Serious eve damage/eve

irritation

Causes serious eve irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Oxide (CAS 75-21-8) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Ethylene Oxide (CAS 75-21-8)

US. National Toxicology Program (NTP) Report on Carcinogens

Ethylene Oxide (CAS 75-21-8) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Test Results Product Species

Triton X-100 Aquatic

Material name: Triton X-100

Fish LC50 Fish

320171-08 Version #: 11 Revision date: 01-03-2019 Issue date: 04-30-2014

61.4098 mg/l, 96 hours estimated

Components Species Test Results

Octylphenol ethoxylate (CAS 9002-93-1)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 2.8 - 3.2 mg/l, 96 hours

Residuals Species Test Results

Ethylene Oxide (CAS 75-21-8)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 73 - 96 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Octylphenol ethoxylate), MARINE

POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III
Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241

Not regulated by DOT in containers 119 gallons or less.

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Octylphenol ethoxylate)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: Triton X-100
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^{*} Estimates for product may be based on additional component data not shown.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octylphenol ethoxylate),

MARINE POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

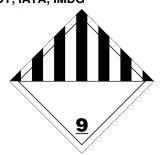
Marine pollutant Yes S F-A. S-F

EmS F-A, S-F
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

DOT; IATA; IMDG



Marine pollutant



General information DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control All components of the mixture on the TSCA 8(b) inventory are designated "active".

Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylene Oxide (CAS 75-21-8) Listed.

SARA 304 Emergency release notification

ETHYLENE OXIDE (CAS 75-21-8) 10 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Ethylene Oxide (CAS 75-21-8) Cancer

Reproductive toxicity

Mutagenicity

Central nervous system Skin sensitization Skin irritation Eye irritation

respiratory tract irritation

Acute toxicity Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name **CAS** number Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, (pounds) lower value (pounds) upper value (pounds) (pounds) Ethylene Oxide 75-21-8 10 1000

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Glycol Ethers as Defined by EPA (65 FR 47342, Aug 2, 2000)	Mixture	<2	
Ethylene Oxide	75-21-8	0.001	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylene Oxide (CAS 75-21-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ethylene Oxide (CAS 75-21-8)

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethylene Oxide (CAS 75-21-8)

Other Flavoring Substances with OSHA PEL's

US state regulations

California Proposition 65



WARNING: This product can expose you to Ethylene Oxide, which is known to the State of California to cause

cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylene Oxide (CAS 75-21-8) Listed: July 1, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene Oxide (CAS 75-21-8) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylene Oxide (CAS 75-21-8)

Octylphenol ethoxylate (CAS 9002-93-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or regionInventory nameOn inventory (yes/no)*EuropeEuropean Inventory of Existing Commercial ChemicalYes

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) Yes
Korea Existing Chemicals List (ECL) Yes
New Zealand New Zealand Inventory Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

16. Other information, including date of preparation or last revision

 Issue date
 04-30-2014

 Revision date
 01-03-2019

Version # 11

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Disclaimer The information provided in this Safety Data Sheet has been obtained from sources believed to be

reliable. Level 7 Chemical provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Level 7 Chemical knows of no medical condition, other than those noted on this Safety Data Sheet, which are generally recognized as

being aggravated by exposure to this product.

Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Exposure controls/personal protection: Appropriate engineering controls

Physical & Chemical Properties: Multiple Properties

Regulatory information: Toxic Substances Control Act (TSCA)

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).