

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/16/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance
Substance name : Triton X-100®
CAS No : 9036-19-5
Product code : LC26280

Formula : (C2H4O)n.C14H22O

Synonyms : 2-methyl-2-propenoic acid, polymer with 2-propenoic acid and N-octy-2-propenamide /

alpha((1,1,3,3-tetramethylbutyl)phenyl)omega-hydroxypoly(oxy-1,2-ethanediyl) / ethoxylated octylphenol / octylphenoxypoly(ethoxyethanol) / poly(ethylene oxide)octylphenyl ether / Triton X

100

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

Use of the substance/mixture : Emulsifier Detergent

### 1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# **GHS-US** classification

Skin Irrit. 2 H315 Eye Irrit. 2A H319

## 2.2. Label elements

# **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash exposed skin thoroughly after handling

P280 - Wear protective gloves, eye protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards not contributing to the

classification

: None under normal conditions

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

06/16/2014 EN (English) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 3: Composition/information on ingredients**

3.1. Substance

Substance type : Polymer

Name : Triton X-100®

CAS No : 9036-19-5

Name	Product identifier	%	GHS-US classification
Triton X-100® (Main constituent)	(CAS No) 9036-19-5	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

First-aid measures after skin contact

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation

persists.

First-aid measures after eye contact

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an

ophthalmologist if irritation persists.

First-aid measures after ingestion

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/injuries after inhalation

: ON CONTINUOUS EXPOSURE/CONTACT: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact

: Tingling/irritation of the skin.

Symptoms/injuries after eye contact

: Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Inflammation/damage of

the eye tissue.

Symptoms/injuries after ingestion

: Gastrointestinal complaints.

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

No additional information available

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. BC powder. Carbon dioxide.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non-flammable. INDIRECT FIRE HAZARD. Heating increases the fire

hazard.

Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT

EXPLOSION HAZARD. No data available on indirect explosion hazard.

Reactivity : Upon combustion: CO and CO2 are formed.

#### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Heat/fire exposure: gas-tight suit.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing.

06/16/2014 EN (English) 2/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Emergency procedures** : Mark the danger area. No naked flames. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

#### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Take up liquid spill into absorbent material sand/earth. Scoop absorbed substance into closing Methods for cleaning up containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment

after handling.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the

installation before use. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under

local exhaust/ventilation or with respiratory protection.

#### Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products Strong bases. Strong oxidizers. Strong reducing agents.

Incompatible materials Sources of ignition. Direct sunlight.

: KEEP SUBSTANCE AWAY FROM: heat sources. Heat and ignition sources

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) bases.

water/moisture.

Store in a cool area. Store in a dry area. Store in a dark area. Ventilation at floor level. May be Storage area

stored under argon. Meet the legal requirements.

SPECIAL REQUIREMENTS: closing. dry. correctly labelled. meet the legal requirements. Secure Special rules on packaging

fragile packagings in solid containers.

: SUITABLE MATERIAL: steel with plastic inner lining. Packaging materials

#### Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

GIVE GOOD RESISTANCE: rubber. plastics. Materials for protective clothing

Hand protection Gloves. Eye protection Face shield. Skin and body protection : Protective clothing.

Respiratory protection Mist formation: aerosol mask.

Other information : Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties 9.1.

Physical state : Liquid **Appearance** : Liquid. Colour : Light yellow

06/16/2014 EN (English) 3/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odour : Almost odourless
Odour threshold : No data available
pH : 6 - 7.5 (1 %)

pH solution : 1 % Relative evaporation rate (butylacetate=1) : < 1 Melting point : -5 - 5 °C

Freezing point : No data available

Boiling point : > 177 °C Flash point : > 110 °C : > 110 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available

Relative vapour density at 20 °C : > 2
Relative density : 1.05
Density : 1050 kg/m³
Solubility : Soluble in water. Water: Complete
Log Pow : No data available

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 0.39 Pa.s (20 °C)
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

# 9.2. Other information

Other properties : Gas/vapour heavier than air at 20°C. Clear. Hygroscopic. Slightly volatile.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Upon combustion: CO and CO2 are formed.

#### 10.2. Chemical stability

Hygroscopic.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizers. Strong bases. Strong reducing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Triton X-100® ( \f )9036-19-5	on X-100® ( \f )9036-19-5	
LD50 oral rat	4190 mg/kg (Rat)	
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)	
ATE US (oral)	4190.0000000 mg/kg bodyweight	
Skin corrosion/irritation	· Causes skin irritation	

Skin corrosion/irritation : Causes skin irritatior pH: 6 - 7.5 (1 %)

06/16/2014 EN (English) 4/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Serious eye damage/irritation : Causes serious eye irritation.

pH: 6 - 7.5 (1 %)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

Symptoms/injuries after inhalation

exposure)

: Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: ON CONTINUOUS EXPOSURE/CONTACT: Dry/sore throat. Coughing. Irritation of the

respiratory tract. Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact : Tingling/irritation of the skin.

Symptoms/injuries after eye contact : Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Inflammation/damage of

the eye tissue.

Symptoms/injuries after ingestion : Gastrointestinal complaints.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - water : Mild water pollutant (surface water). Insufficient data available on ecotoxicity.

Triton X-100® (9036-19-5)
Threshold limit algae 1

10 mg/l (336 h; Lemna sp.; Biomass)

#### 12.2. Persistence and degradability

Trito	n X	-100	® (9	036-1	19-5)

Persistence and degradability Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

Triton X-100®	(9036-19-5)
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Bioaccumulative potential No bioaccumulation data available.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste disposal recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.

Additional information : Hazardous waste according to Directive 2008/98/EC.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT

Not regulated for transport

06/16/2014 EN (English) 5/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Additional information** 

Other information : No supplementary information available.

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID.

**ADR** 

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

# Triton X-100® (9036-19-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

	NADA		
Triton X-100® (9036-19-5) Listed on the Canadian DSL (Domestic Sustances List) inventory.			
			WHMIS Classification

#### **EU-Regulations**

No additional information available

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

Eye Irrit. 2 H319 Skin Irrit. 2 H315

Full text of H-phrases: see section 16

## Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36/38

Full text of R-phrases: see section 16

15.2.2. National regulations

# Triton X-100® (9036-19-5)

Not listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

:

Other information : None.

### Full text of H-phrases: see section 16:

on in principle.		
	Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
	Skin Irrit. 2	Skin corrosion/irritation, Category 2
	H315	Causes skin irritation
	H319	Causes serious eye irritation

06/16/2014 EN (English) 6/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

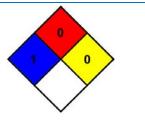
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard
Personal Protection : B

SDS US (GHS HazCom 2012)

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06/16/2014 EN (English) 7/7