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Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 22.04.2025

Version number 4 (replaces version 3)

Revision: 22.04.2025

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

- · 1.1 Product identifier
- · Trade name: Triton X-100 10% Solution
- · Product Code: 40-2054
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Product category** PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory chemicals
- · Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of aerosol, vapour or dust in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE). Processes involving extreme heat use advised against.

Processes involving extreme near use advised against.

 \cdot 1.3 Details of the supplier of the safety data sheet

• Supplier: Severn Biotech Ltd. Unit 2, Park Lane, Kidderminster, Worcestershire. DY11 6TJ UK Tel: 0044 1562 825286 Fax: 0044 1562 825284 email: info@severnbiotech.com

- · Further information obtainable from: Product safety department.
- 1.4 Emergency telephone number:
- Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to GB-CLP

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- Labelling according to GB-CLP The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



· Signal word Danger

• **Hazard-determining components of labelling:** Polyethylene glycol octylphenol ether



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 Hazard staten 	nents	
H315 Causes s	kin irritation.	
H318 Causes s	erious eye damage.	
H412 Harmful	to aquatic life with long lasting effects.	
· Precautionary	<i>v</i> statements	
P273	Avoid release to the environment.	
P280	Wear protective gloves / eye protection / face protection.	
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	
	and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P501	Dispose of contents/container in accordance with local regulations.	
· 2.3 Other haz	ards	
· Results of PB'	Γ and vPvB assessment	
· PBT: Not appl	icable.	
· vPvB: Not applicable.		

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 9002-93-1 Polyethylene glycol octylphenol ether

♦ Eye Dam. 1, H318; ♦ Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315

·SVHC

CAS: 9002-93-1 Polyethylene glycol octylphenol ether

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

- · Information for doctor: Treat symptomatically and supportively.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment:
- Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device. Wear fully protective suit.
- · Additional information
 - Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 Particular danger of slipping on leaked/spilled product.
 Ensure adequate ventilation
 Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions:
 Do not allow to penetrate the ground/soil.
 Do not allow to enter sewers/ surface or ground water.
 Inform respective authorities in case of seepage into water course or sewage system.
 6.3 Methods and material for containment and cleaning up:
 Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

 \cdot 7.1 Precautions for safe handling

Prevent formation of aerosols.

- Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.

\cdot 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

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- · Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions:
- Store in a bunded area.

Store in cool, dry conditions in well sealed receptacles.

- Protect from frost.
- Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- · Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Do not eat, drink, smoke or sniff while working.
- Ensure that eyewash stations and safety showers are close to the workstation location.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- · Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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· Body protection:

Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

· Environmental exposure controls Do not allow to enter drains, sewers or watercourses.

• Risk management measures The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical prop	perties			
· General Information				
· Physical state	Liquid			
· Colour:	Light yellow			
· Odour:	Mild			
· Odour threshold:	Not determined.			
· Melting point/freezing point:	Undetermined.			
· Boiling point or initial boiling point and boiling range 100 °C				
· Flammability	Not applicable.			
· Lower and upper explosion limit	Tot uppheuole.			
· Lower:	Not determined.			
· Upper:	Not determined.			
· Flash point:	Cannot promote combustion			
· Decomposition temperature:	Not determined.			
· pH at 20 °C	8-9			
	0 - 9			
· Viscosity:	Not determined			
· Kinematic viscosity	Not determined.			
· Dynamic:	Not determined.			
Solubility				
• water:	Fully miscible.			
· Partition coefficient n-octanol/water (log value)	Not determined.			
· Vapour pressure at 20 °C:	23 hPa			
· Density and/or relative density				
· Density at 20 °C:	1 g/cm ³			
· Relative density	Not determined.			
· Vapour density	Not determined.			
• 9.2 Other information				
· Appearance:				
· Form:	Fluid			
· Important information on protection of health and				
environment, and on safety.	TA .			
· Ignition temperature:	Product is not self-igniting.			
· Explosive properties:	Product does not present an explosion hazard.			
· Solvent content:	roduct does not present an expression nazard.			
· VOC (EC)	0.00~%			
· Change in condition	0.00 /0			
· Evaporation rate	Not determined.			
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· Information with regard to physical hazard c	lasses			
· Explosives	Not applicable			
· Flammable gases	Not applicable			
· Aerosols	Not applicable			
· Oxidising gases	Not applicable			
· Gases under pressure	Not applicable			
· Flammable liquids	Not applicable			
· Flammable solids	Not applicable			
 Self-reactive substances and mixtures 	Not applicable			
· Pyrophoric liquids	Not applicable			
· Pyrophoric solids	Not applicable			
· Self-heating substances and mixtures	Not applicable			
· Substances and mixtures, which emit flammable gases				
in contact with water	Not applicable			
· Oxidising liquids	Not applicable			
· Oxidising solids	Not applicable			
· Organic peroxides	Not applicable			
· Corrosive to metals	Not applicable			
· Desensitised explosives	Not applicable			

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Heat and static discharge.
- 10.5 Incompatible materials: Strong oxidising agents.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 18,000 mg/kg (rat)

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Oral LD50 1,800 mg/kg (rat)

Dermal LD50 > 5,000 mg/kg (rabbit)

· Primary irritant effect:

· Skin corrosion/irritation

- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye damage.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.



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List I

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- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- \cdot 11.2 Information on other hazards

· Endocrine disrupting properties

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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EC50 (96 h) 26 mg/l (Bacteria)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential Product is not expected to bioaccumulate.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.



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Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. • **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information			
· 14.1 UN number or ID number · ADR/RID/ADN, ADN, IMDG, IATA	Not applicable		
 · 14.2 UN proper shipping name · ADR/RID/ADN, ADN, IMDG, IATA 	Not applicable		
· 14.3 Transport hazard class(es)			
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Not applicable		
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Not applicable		
 • 14.5 Environmental hazards: • Marine pollutant: 	No		
· 14.6 Special precautions for user	Not applicable.		
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.			
· Transport/Additional information:	Not dangerous according to the above specifications.		
· UN "Model Regulation":	Not applicable		

SECTION 15: Regulatory information

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

· Poisons Act

- · Regulated explosives precursors
- None of the ingredients are listed.
- · Regulated poisons
- None of the ingredients are listed.
- \cdot Reportable explosives precursors

None of the ingredients are listed.

· Reportable poisons

None of the ingredients are listed.

- · Control Of Major Accident Hazards Regulations 2015 (COMAH)
- Named dangerous substances ANNEX I None of the ingredients are listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)

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Trade name: Triton X-100 10% Solution

· National regulations:

· Substances of very high concern (SVHC) according to UK REACH

CAS: 9002-93-1 Polyethylene glycol octylphenol ether

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

· Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· Department issuing SDS: Product safety department.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

 \cdot * Data compared to the previous version altered.

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