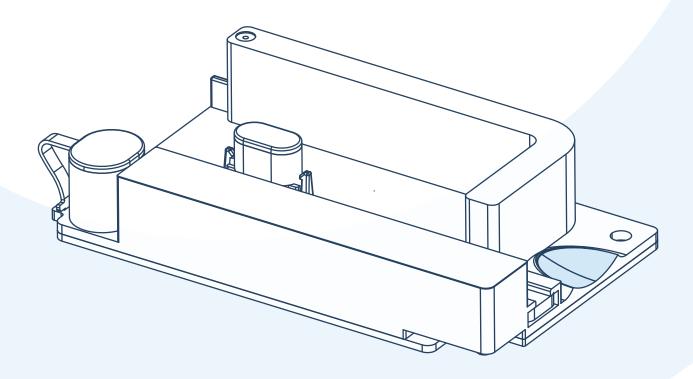
X8[™] Tissue DNA Cartridge Kit

FOR USE WITH:

X8 OneTouch Instrument (Cat# X8-OT-101-IN)







X8 Tissue DNA Cartridge Kit Safety Data Sheet

Safety Data Sheet (SDS) cover letter for product:

X8™ Tissue DNA Cartridge Kit (24 preps)

Catalog number: X8-TD-001-24

The X8 Tissue DNA Cartridge Kit includes:

- 24- X8 Tissue DNA Cartridges (PN. X8-TD02001-24)
- 9 mL- T-DNA Lysis Buffer (PN. X8-LB1)
- 5 mL DNA Elution Buffer. (PN. X8-EB1)

This product contains one or more components with related SDS, listed below.

- A. SDS for X8 Tissue DNA Cartridges (PN. X8-TD02001-24)
- B. SDS for T-DNA Lysis Buffer (PN. X8-LB1)
- C. SDS for DNA Elution Buffer (PN. X8-EB1)

Safety Data Sheet prepared in accordance with SS 586 Part 3.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Date of preparation / last revision: 2023-04-10.

X8 Tissue DNA Cartridge Kit Safety Data Sheet

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Safety Data Sheet prepared in accordance with SS 586 Part 3.

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Safety Data Sheet

A. SDS for X8 Tissue DNA Cartridges

1. Identification

1.1. Product identifier

- Trade name. X8™ Tissue DNA Cartridges
- REACH Registration number. Not relevant.
- 1.2. Relevant identified uses of the substance or mixture and uses advised against.
 - Product category. The X8 Tissue DNA Cartridge Kit rapidly automates tissue DNA extraction and purification from specified smaple types.
- 1.3. Details of the supplier of the safety data sheet.

Manufacturer/Supplier

One BioMed Pte Ltd, 4 Fusionopolis Way, Kinesis #06 Singapore 138635 tel. +65 8189 4412 Email. support@onebiomed.com

1.4. Emergency telephone number. +65 8189 4412

2. Hazard identification

2.1. Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008.

The product is not classified, according to the CLP regulation.

2.2. Label elements

- Labelling according to Regulation (EC) No 1272/2008. Non-Regulated Material.
- Hazard pictograms. Non-Regulated Material.
- Signal word. Non-Regulated Material.
- Hazard statements. Non-Regulated Material.
- Additional information. This value refers to knowledge of known, established toxicological or ecotoxicological values.
 0% of the mixture consists of component(s) of unknown toxicity. Contains 0% of components with unknown hazards to the aquatic environment.

2.3. Other hazards. None known

• Results of PBT and vPvB assessment.

PBT. Not applicable. vPvB. Not applicable.

3. Composition/ information on ingredients

3.1. Chemical characterisation. Mixtures

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

Dangerous components:				
	Tris Hydrochloride			
1185-53-1	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE3, H335	≤2.5%		

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

4. First-aid measures

4.1. Description of first aid measures

- General information.
 If symptoms persist, call a physician.
- After inhalation.
 Supply fresh air; consult doctor in case of complaints.
- After skin contact.

 Wash with soap and water. If skin irritation occurs, consult a doctor.
- After eye contact.

If eye irritation occurs, consult a doctor. Rinse opened eye for several minutes under running water.

• After swallowing.

Rinse mouth with water. If swallowed and symptoms occur, consult a doctor.

- 4.2. Most important symptoms and effects, both acute and delayed. No further relevant information available.
- 4.3. Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5. Fire-fighting measures

- 5.1. Extinguishing media.
 - Suitable extinguishing agents.

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents. No further relevant information.
- Special hazards arising from the substance or mixture. No further relevant information available.

5.2. Advice for firefighters.

• Protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures. Not required.
- 6.2. **Environmental precautions.** No special measures required.
- 6.3. Methods and material for containment and cleaning up.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to 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.

7. Handling & storage

- 7.1. **Precautions for safe handling.** No special precautions are necessary, if used correctly.
 - Information about fire and explosion protection. No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities

Storage

- Requirements to be met by storerooms and receptacles. No special requirements.
- Information about storage in one common storage facility. Not required.
- Further information about storage conditions. None.

7.3. **Specific end use(s).** No further relevant information available.

8. Exposure controls / personal protection

8.1. Control parameters

- Additional information about design of technical facilities. No further data; see item 7.
- 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

- Personal protective equipment.
- General protective and hygienic measures. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
- Respiratory protection. Not required.
- Protection of hands. Not required.
- Material of gloves. Not applicable.
- Penetration time of glove material. Not applicable.



- **Eye protection.** Goggles recommended during refilling.
- 8.3. **Environmental exposure controls.** None.

9. Physical & chemical properties

9.1. Information on basic physical and chemical properties

General Information

 Appearance Form.

Fluid.

• Colour.

Clear.

• Odour.

Odourless.

• pH-value. Not determined.

• Change in condition

Melting point/freezing point. Not determined.

• Flash point. Not applicable.

• Flammability (solid, gas). Not applicable.

• Ignition temperature. Not applicable.

• Decomposition temperature. Not determined.

• Auto-ignition temperature. Product is not self-

igniting.

• Explosive properties. Product does not present

an explosion hazard.

Explosion limits

Lower. Not determined. Upper. Not determined.

• Vapour pressure. Not determined.

• Density. Not determined.

• Relative density. Not determined.

• Vapour density. Not determined.

• Evaporation rate. Not determined.

• Solubility in / Miscibility with water. Miscible.

• Partition coefficient.

n-octanol/water. Not determined.

• Viscosity.

Dynamic. Not determined. Kinematic. Not determined.

• Solvent content.

VOC content. 0.00%

9.2. **Other information.** No further relevant

information available.

10. Stability & reactivity

- 10.1. **Reactivity.** No further relevant information available.
- 10.2. Chemical stability. Product is stable under normal conditions.
 - Thermal decomposition / conditions to be avoided.

 No decomposition if used according to specifications.
- 10.3. **Possibility of hazardous reactions.** No dangerous reactions known.
- 10.4. Conditions to avoid. No further relevant information available.
- 10.5. **Incompatible materials.** No further relevant information available.
- 10.6. **Hazardous decomposition products.** No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity. Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification. No data available.

Primary irritant effect

- Skin corrosion/irritation. Based on available data, the classification criteria are not met.
- Serious eye damage/irritation. Based on available data, the classification criteria are not met.
- Sensitisation. Based on available data, the classification criteria are not met.

Additional toxicological information.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction).

- 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 (Specific target organ toxicity)-single exposure. Based on available data, the classification criteria are not met.

- STOT (Specific target organ toxicity)-repeated exposure. Based on available data, the classification criteria are not met.
- Aspiration hazard. Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity.

- Aquatic toxicity. No further relevant information available.
- 12.2. **Persistence and degradability.** No further relevant information available.
- 12.3. **Bioaccumulative potential.** No further relevant information available.
- 12.4. Mobility in soil. No further relevant information available.
 - Additional ecological information.
 - General notes. Not hazardous for water.

12.5. Results of PBT and vPvB assessment

- PBT. Not applicable.
- vPvB. Not applicable.
- 12.6. Other adverse effects. No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

• Recommendation. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging

• **Recommendation.** Disposal must be made according to official regulations.

14. Transport information

14.1. UN-Number

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.2. UN proper shipping name

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.3. Transport hazard class(es)

• ADR/ADN, ADN, IMDG, IATA

• Class. Non-Regulated Material.

14.4. Packing group

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.5. **Environmental hazards.** Not applicable.

14.6. **Special precautions for user** Not applicable.

14.7. Transport in bulk according to Annex II of

• Marpol and the IBC Code Not applicable.

• UN "Model Regulation". Non-Regulated Material.

15. Regulatory information

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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule- Psychotropic Substances

None of the ingredients are listed.

- Directive 2012/18/EU. Substance is not listed.
- Named dangerous substances ANNEX I. None of the ingredients are listed.

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX
XIV)

9002-93-1	Polyethylene glycol octylphenol	Sunset date:
		2021-01-04

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients are listed.

• REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients are listed.

National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

15.2. **Chemical safety assessment.** A chemical safety assessment has not been carried out.

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.

16.1. Relevant phrases

- H315. Causes skin irritation.
- H319. Causes serious eye irritation.
- H335. May cause respiratory irritation.
- 16.2. Abbreviations and acronyms. Refer to page 35.

B. SDS for T-DNA Lysis Buffer

1. Identification

1.1. Product identifier

- Trade name. T-DNA Lysis Buffer
- REACH Registration number. Not relevant.
- 1.2. Relevant identified uses of the substance or mixture and uses advised against.
 - Product category. The T-DNA Lysis Buffer is for use with the X8
 Tissue DNA Cartridge Kit. Optimized for lysis of specified sample
 types.
- 1.3. Details of the supplier of the safety data sheet.

Manufacturer/Supplier

One BioMed Pte Ltd, 4 Fusionopolis Way, Kinesis #06 Singapore 138635 tel. +65 8189 4412

Email. support@onebiomed.com

1.4. Emergency telephone number. +65 8189 4412

2. Hazard identification

2.1. Classification of the substance or mixture



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects



Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2. Label elements

- Labelling according to Regulation (EC) No 1272/2008. The product is classified and labelled according to the CLP regulation.
- Hazard pictograms.





GHS07 GHS09

- Signal word. Warning
- Hazard-determining components of labelling. Sodium Lauryl Sulfate
- Hazard statements.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

• Precautionary statements.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information. This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity. Contains 16.1 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards. None known

• Results of PBT and vPvB assessment.

PBT. Not applicable. vPvB. Not applicable.

3. Composition/ information on ingredients

3.1. Chemical characterisation. Mixtures

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

Dangerous components:			
	Polyethylene glycol octylphenol ether		
9002-93-1	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315	2-12%	
	Sodium Lauryl Sulfate		
151-21-3	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≤2.5%	

SVHC	
9002-93-1	Polyethylene glycol octylphenol ether

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

4. First-aid measures

4.1. Description of first aid measures

General information.
 If symptoms persist, call a physician.

• After inhalation.

In case of unconsciousness, place patient stably in side position for transportation.

After skin contact.

Generally the product does not irritate the skin. If skin irritation occurs, consult a doctor. Wash with soap and water.

• After eye contact.

If eye irritation occurs, consult a doctor. Rinse opened eye for several minutes under running water.

• After swallowing.

If swallowed and symptoms occur, consult a doctor.

- 4.2. Most important symptoms and effects, both acute and delayed. No further relevant information available.
- 4.3. Indication of any immediate medical attention and special

treatment needed. Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media.

- Suitable extinguishing agents.
 Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents. No further relevant information.
- 5.2. Special hazards arising from the substance or mixture.

No further relevant information available.

- 5.3. Advice for firefighters.
 - Protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures. Not required.
- 6.2. **Environmental precautions.** Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers, surface or ground water.
- 6.3. Methods and material for containment and cleaning up. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated materials as waste according to section 13. Ensure adequate ventilation. Dispose of the material collected according to 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.

7. Handling & storage

- 7.1. **Precautions for safe handling.** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
 - Information about fire and explosion protection. No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities

Storage

- Requirements to be met by storerooms and receptacles. No special requirements.
- Information about storage in one common storage facility. Not required.
- Further information about storage conditions. Keep container tightly sealed.
- 7.3. **Specific end use(s).** No further relevant information available.

8. Exposure controls / personal protection

8.1. Control parameters

- Additional information about design of technical facilities. No further data; see item 7.
- 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

- Personal protective equipment.
- General protective and hygienic measures. The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the skin.
- Respiratory protection. Not required.



- Protection of hands. Protective gloves.
- Material of gloves. 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. The exact break through time
 has to be found out by the manufacturer of the protective gloves
 and has to be observed.



- Eye protection. Goggles recommended during refilling.
- 8.3. **Environmental exposure controls.** Keep away from drains, surface and ground waters. Avoid release into the environment.
- 9. Physical & chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance

Form. Liquid. Colour. Clear.

• Odour. Slight.

• pH-value. Not determined.

• Change in condition

Melting point/freezing point. Not determined.

• Flash point. ≥109 °C.

• Flammability (solid, gas). Not applicable.

• Ignition temperature. ≥375 °C.

• Decomposition temperature. Not determined.

• Auto-ignition temperature. Product is not self-

igniting.

• Explosive properties. Product does not present

an explosion hazard.

• Explosion limits

Lower. Not determined. Upper. Not determined.

• Vapour pressure @ 20 °C. ≤23 hPa.

• Density. Not determined.

• Relative density. Not determined.

• Vapour density. Not determined.

• Evaporation rate. Not determined.

• Solubility in / Miscibility with water. Fully miscible.

• Partition coefficient. n-octanol/water. Not determined.

• Viscosity.

Dynamic. Not determined. Kinematic. Not determined.

• Solvent content.

Solids content. 1.3%

9.2. **Other information.** No further relevant

information available.

10. Stability & reactivity

- 10.1. **Reactivity.** No further relevant information available.
- 10.2. Chemical stability. Product is stable under normal conditions.
 - Thermal decomposition / conditions to be avoided.
 No decomposition if used according to specifications.
- 10.3. Possibility of hazardous reactions. No dangerous reactions known.
- 10.4. Conditions to avoid. No further relevant information available.
- 10.5. Incompatible materials. No further relevant information available.
- 10.6. **Hazardous decomposition products.** No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity. Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification			
151-21-3	Sodium Lauryl Sulfate		
Oral Inhalative	LD50 LC50/4h	1,288 mg/kg (Rat) >3,900 mg/L (Rat)	
9002-93-1	Polyethylene glycol octylphenol ether		
Oral Dermal Inhalative		1,800 mg/kg (Rat) 8,000 mg/kg (Rat) 8.9 mg/L (Pimephales)	

- Primary irritant effect
- Skin corrosion/irritation. May cause an allergic skin reaction.
- Serious eye damage/irritation. Based on available data, the

classification criteria are not met.

• Sensitisation. May cause an allergic skin reaction.

Additional toxicological information.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction).

- **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 (Specific target organ toxicity)-single exposure. Based on available data, the classification criteria are not met.
- STOT (Specific target organ toxicity)-repeated exposure. Based on available data, the classification criteria are not met.
- Aspiration hazard. Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Aquatic toxicity. Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.		
9002-93-1 Polyethylene glycol octylphenol ether		
EC50 26 mg/L (Daphnia)		

- 12.2. **Persistence and degradability.** No further relevant information available.
- 12.3. **Bioaccumulative potential.** No further relevant information available.
- 12.4. **Mobility in soil.** No further relevant information available.
 - Ecotoxical effects. Remark: Toxic for fish.
 - Additional ecological information. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.
 - Results of PBT and vPvB assessment

- PBT. Not applicable.
- vPvB. Not applicable.
- 12.5. Other adverse effects. No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

• Recommendation. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging

- Recommendation. Disposal must be made according to official regulations.
- Recommendation cleansing agents. Water, if necessary together with cleansing agents.

14. Transport information

14.1. UN-Number

• ADR/ADN, IMDG, IATA

UN3082.

14.2. UN proper shipping name

 ADR/ADN, IMDG, IATA UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triton X-100). ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID, N.O.S. (Triton X-100), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID, N.O.S. (Triton X-100).

14.3. Transport hazard class(es)

ADR/ADN



- Class. 9 (M6) Miscellaneous dangerous substances and articles.
- Label.

9.

• IMDG, IATA



• Class. 9 Miscellaneous dangerous substances and articles.

• Label. 9.

14.4. Packing group

14.5. Environmenta

• Special mar..... Symbol (fish and tree)

• Special marking (IATA): Symbol (fish and tree)

14.6. **Special precautions for user.** Warning: Miscellaneous dangerous substances and articles.

• Hazard identification number (Kemler code). 9.

• EMS Number. F-A,S-F

• Stowage Category. A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

• Transport/Additional information:

ADR/ADN

Limited quantities (LQ). 5L.

Excepted quantities (EQ). Code: E1.

Maximum net quantity per inner packaging: 30 mL. Maximum net quantity per outer packaging: 1000 mL.

Transport category. 3.
Tunnel restriction code (-)

• IMDG

Limited quantities (LQ). 5L

Excepted quantities (EQ). Code E1.

• UN "Model Regulation". UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRITON X-100), 9, III.

15. Regulatory information

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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule- Psychotropic Substances

None of the ingredients are listed.

- Directive 2012/18/EU. Substance is not listed.
- Named dangerous substances ANNEX I. None of the ingredients are listed.
 - Seveso category E2 Hazardous to the Aquatic Environment.
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t.
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

9002-93-1	Polyethylene gl	ycol octyl	phenol	Sunset date:
9002-93-1	ether			2021-01-04

 REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction. 3.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients are listed.

REGULATION (EU) 2019/1148.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients are listed.

National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

• Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

9002-93-1 Polyethylene glycol octylphenol ether

15.2. **Chemical safety assessment.** A chemical safety assessment has not been carried out.

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.

16.1. Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- 16.2. Abbreviations and acronyms. Refer to page 35.

C. SDS for DNA Elution Buffer

1. Identification

1.1. Product identifier

- Trade name. DNA Elution Buffer
- REACH Registration number. Not relevant.

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

• **Product category.** The DNA Elution Buffer is for use with the X8 Tissue DNA Cartridge Kit. Optimized for the elution of tissue DNA from specified sample types.

2. Hazard identification

2.1. Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008.

The product is not classified, according to the CLP regulation.

2.2. Label elements

- Labeling according to Regulation (EC) No 1272/2008. Non-Regulated Material.
- Hazard pictograms. Non-Regulated Material.
- Signal word. Non-Regulated Material.
- Hazard statements. Non-Regulated Material.
- Additional information. This value refers to knowledge of known, established toxicological or ecotoxicological values.
 0% of the mixture consists of component(s) of unknown toxicity.
 Contains 0% of components with unknown hazards to the aquatic environment.

2.3. Other hazards. None known

• Results of PBT and vPvB assessment.

PBT. Not applicable. vPvB. Not applicable.

3. Composition/ information on ingredients

3.1. Chemical characterization. Mixtures

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

Dangerous components:			
	Sodium carbonate		
497-19-8	Eye Irrit. 2A, H319	<0.1%	

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

4. First-aid measures

4.1. Description of first aid measures

- General information.
 If symptoms persist, call a physician.
- After inhalation.

 Supply fresh air; consult doctor in case of complaints.
- After skin contact.

 Wash with soap and water. If skin irritation occurs, consult a doctor.
- After eye contact.

 If eye irritation occurs, consult a doctor. Rinse opened eye for several minutes under running water.
- After swallowing.
 Rinse mouth with water. If swallowed and symptoms occur, consult a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed.

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

5. Fire-fighting measures

- 5.1. Extinguishing media.
 - Suitable extinguishing agents.
 Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.
 - For safety reasons unsuitable extinguishing agents. No further relevant information.
 - Special hazards arising from the substance or mixture. Carbon oxides, nitrogen oxides, Sulphur oxides.

5.2. Advice for firefighters.

• Protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures. Prevent skin/eye contact. Use personal protective equipment. Ensure adequate ventilation.
- 6.2. **Environmental precautions.** Do not allow material into sewers and drainage systems.
- 6.3. Methods and material for containment and cleaning up.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to 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.

7. Handling & storage

- 7.1. **Precautions for safe handling.** Prevent skin/eye contact. Use personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
 - Information about fire and explosion protection. No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage

- Requirements to be met by storerooms and receptacles. Store in tightly closed container between 15 °C 30 °C.
- Information about storage in one common storage facility. Not required.
- 7.3. **Specific end use(s).** No further relevant information available.

8. Exposure controls / personal protection

8.1. Control parameters

- Additional information about design of technical facilities. No further data; see item 7.
- 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

- Personal protective equipment. Protective clothing.
- General protective and hygienic measures. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
- Respiratory protection. Respiratory protection is not required.
 Where protection from nuisance levels of dusts are desired, use
 type N95 (US) or type P1 (EN 143) dust masks. Use respirators and
 components tested and approved under appropriate government
 standards such as NIOSH (US) or CEN (EU).



- Protection of hands. Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Material of gloves. 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



- Eye protection. Goggles recommended during refilling.
- 8.3. **Environmental exposure controls.** Keep away from drains, surface and ground waters. Avoid release into the environment.

9. Physical & chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance

Form. Liquid. Colour. Clear.

• Odour. Odorless.

• pH-value. 10.75 - 11.35 (at 25 °C)

• Change in condition

Melting point/freezing point. Not determined.

• Flash point. Not applicable.

• Flammability (solid, gas). Not applicable.

• Ignition temperature. Not applicable.

• Decomposition temperature. Not determined.

• Auto-ignition temperature. Not determined.

• Explosive properties. Not determined.

• Explosion limits

Lower. Not determined. Upper. Not determined.

• Vapour pressure. Not determined.

• Density. Not determined.

• Relative density. Not determined.

• Vapour density. Not determined.

• Evaporation rate. Not determined.

• Solubility in / Miscibility with water. Not determined.

• Partition coefficient.

n-octanol/water. Not determined.

• Viscosity.

Dynamic. Not determined. Kinematic. Not determined.

• Solvent content.

VOC content. 0.00%

• Other information. No further relevant

information available.

10. Stability & reactivity

10.1. **Reactivity.** No further relevant information available.

10.2. Chemical stability. Product is stable under normal conditions.

- Thermal decomposition / conditions to be avoided.
 No decomposition if used according to specifications.
- 10.3. **Possibility of hazardous reactions.** No dangerous reactions known.
- 10.4. Conditions to avoid. No further relevant information available.
- 10.5. **Incompatible materials.** Strong oxidizing agents.
- Hazardous decomposition products. Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity. Based on available data, the classification criteria
- LD/LC50 values relevant for classification. No data available.

Primary irritant effect

- Skin corrosion/irritation. Based on available data, the classification criteria are not met.
- Serious eye damage/irritation. Based on available data, the classification criteria are not met.
- Sensitization. Based on available data, the classification criteria are not met.

Additional toxicological information.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction).

- 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 (Specific target organ toxicity)-single exposure. Based on available data, the classification criteria are not met.
- STOT (Specific target organ toxicity)-repeated exposure. Based on available data, the classification criteria are not met.
- Aspiration hazard. Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity.

- Aquatic toxicity. No further relevant information available.
- Persistence and degradability. No further relevant information available.
- 12.2. **Bioaccumulative potential.** No further relevant information available.
- 12.3. **Mobility in soil.** No further relevant information available.
 - Additional ecological information.
 - General notes. Not hazardous for water.

12.4. Results of PBT and vPvB assessment

- PBT. Not applicable.
- vPvB. Not applicable.
- 12.5. Other adverse effects. No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

• Recommendation. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging

• Recommendation. Disposal must be made according to official regulations.

14. Transport information

14.1. UN-Number

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.2. UN proper shipping name

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.3. Transport hazard class(es)

ADR/ADN, ADN, IMDG, IATA

• Class. Non-Regulated Material.

14.4. Packing group

• ADR/ADN, IMDG, IATA Non-Regulated Material.

14.5. **Environmental hazards.** Not applicable.

14.6. **Special precautions for user** Not applicable.

14.7. Transport in bulk according to Annex II of

• Marpol and the IBC Code Not applicable.

• UN "Model Regulation". Non-Regulated Material.

15. Regulatory information

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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule- Psychotropic Substances

None of the ingredients are listed.

- Directive 2012/18/EU. Substance is not listed.
- Named dangerous substances ANNEX I. None of the ingredients are listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients are listed.

• REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients are listed.

National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

15.2. **Chemical safety assessment.** A chemical safety assessment has not been carried out.

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.

16.1. Relevant phrases

• H319. Causes serious eye irritation.

16.2. Abbreviations and acronyms.

- ADR. Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
- ADN. The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- IMDG. International Maritime Code for Dangerous Goods.
- IATA. International Air Transport Association.
- GHS. Globally Harmonized System of Classification and Labeling 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.
- Eye Irrit 2. Serious eye damage/eye irritation Category 2A.
- *Data compared to the previous version altered.

Safety Data Sheet prepared in accordance with SS 586 Part 3.

Contact us

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