

# SAFETY DATA SHEET



T7 RNA Polymerase 5000U, Part Number 600123

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

### 1.1 Product identifier

**Product name** : T7 RNA Polymerase 5000U, Part Number 600123  
**Part no. (chemical kit)** : 600123  
**Part no.** : T7 RNA Polymerase 600123-51  
RNA Polymerase 600110-83  
Dilution Buffer  
5X Transcription Buffer 600110-82

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

**Material uses** : Analytical reagent.  
T7 RNA Polymerase 1 ml (5000 U 50 U/μl)  
RNA Polymerase Dilution Buffer 1 ml  
5X Transcription Buffer 1 ml

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

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : T7 RNA Polymerase Mixture  
RNA Polymerase Mixture  
Dilution Buffer  
5X Transcription Buffer Mixture

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

##### 5X Transcription

##### Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

**Ingredients of unknown toxicity** : T7 RNA Polymerase Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%  
RNA Polymerase Dilution Buffer Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%  
5X Transcription Buffer Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

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## SECTION 2: Hazards identification

<b>Signal word</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. P273 - Avoid release to the environment.
<b>Response</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: 5X Transcription Buffer	Not applicable.
<b>Supplemental label elements</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.
<b>2.3 Other hazards</b>		
<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	None known. None known. None known.

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## SECTION 3: Composition/information on ingredients

**3.1 Substances** : T7 RNA Polymerase Mixture  
 RNA Polymerase Dilution Buffer Mixture  
 5X Transcription Buffer Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>T7 RNA Polymerase</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>RNA Polymerase Dilution Buffer</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>5X Transcription Buffer</b> Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
Magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	≤1	Aquatic Chronic 1, H410 (M=1) <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : T7 RNA Polymerase Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  
 RNA Polymerase Dilution Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  
 5X Transcription Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** : T7 RNA Polymerase Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 RNA Polymerase Dilution Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 5X Transcription Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial

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## SECTION 4: First aid measures

		respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: T7 RNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Polymerase Dilution Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X Transcription Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: T7 RNA Polymerase	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	RNA Polymerase Dilution Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	5X Transcription Buffer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders</b>	: T7 RNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	RNA Polymerase Dilution Buffer	No action shall be taken involving any personal risk or without suitable training.
	5X Transcription Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Potential acute health effects

<b>Eye contact</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Inhalation</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.

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**SECTION 4: First aid measures**

<b>Skin contact</b>	:	T7 RNA Polymerase	No known significant effects or critical hazards.
		RNA Polymerase	No known significant effects or critical hazards.
		Dilution Buffer	
		5X Transcription Buffer	No known significant effects or critical hazards.
<b>Ingestion</b>	:	T7 RNA Polymerase	No known significant effects or critical hazards.
		RNA Polymerase	No known significant effects or critical hazards.
		Dilution Buffer	
		5X Transcription Buffer	No known significant effects or critical hazards.

Over-exposure signs/symptoms

<b>Eye contact</b>	:	T7 RNA Polymerase	No specific data.
		RNA Polymerase	No specific data.
		Dilution Buffer	
		5X Transcription Buffer	No specific data.
<b>Inhalation</b>	:	T7 RNA Polymerase	No specific data.
		RNA Polymerase	No specific data.
		Dilution Buffer	
		5X Transcription Buffer	No specific data.
<b>Skin contact</b>	:	T7 RNA Polymerase	No specific data.
		RNA Polymerase	No specific data.
		Dilution Buffer	
		5X Transcription Buffer	No specific data.
<b>Ingestion</b>	:	T7 RNA Polymerase	No specific data.
		RNA Polymerase	No specific data.
		Dilution Buffer	
		5X Transcription Buffer	No specific data.

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

<b>Notes to physician</b>	:	T7 RNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Dilution Buffer	
		5X Transcription Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	:	T7 RNA Polymerase	No specific treatment.
		RNA Polymerase	No specific treatment.
		Dilution Buffer	
		5X Transcription Buffer	No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	:	T7 RNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
		RNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
		Dilution Buffer	
		5X Transcription Buffer	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	:	T7 RNA Polymerase	None known.
		RNA Polymerase	None known.
		Dilution Buffer	
		5X Transcription Buffer	None known.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	:	T7 RNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
		Dilution Buffer	
		5X Transcription Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this

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## SECTION 5: Firefighting measures

<b>Hazardous combustion products</b>	: T7 RNA Polymerase	material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include the following materials: carbon dioxide carbon monoxide
	RNA Polymerase Dilution Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	5X Transcription Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: T7 RNA Polymerase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	RNA Polymerase Dilution Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	5X Transcription Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: T7 RNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	RNA Polymerase Dilution Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	5X Transcription Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: T7 RNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	RNA Polymerase Dilution Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	5X Transcription Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing

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## SECTION 6: Accidental release measures

### For emergency responders

: T7 RNA Polymerase

vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

RNA Polymerase  
Dilution Buffer

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

5X Transcription Buffer

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: T7 RNA Polymerase

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

RNA Polymerase  
Dilution Buffer

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

5X Transcription Buffer

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

#### Methods for cleaning up

: T7 RNA Polymerase

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

RNA Polymerase  
Dilution Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

5X Transcription Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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## SECTION 7: Handling and storage

<b>Protective measures</b>	: T7 RNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	RNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	Dilution Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	5X Transcription Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	: T7 RNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	RNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Dilution Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	5X Transcription Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

<b>Storage</b>	: T7 RNA Polymerase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Polymerase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Dilution Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	5X Transcription Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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## SECTION 7: Handling and storage

### 7.3 Specific end use(s)

<b>Recommendations</b>	:	T7 RNA Polymerase	Industrial applications, Professional applications.
		RNA Polymerase	Industrial applications, Professional applications.
		Dilution Buffer	
		5X Transcription Buffer	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	:	T7 RNA Polymerase	Not available.
		RNA Polymerase	Not available.
		Dilution Buffer	
		5X Transcription Buffer	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
T7 RNA Polymerase Glycerol	<b>NAOSH (Ireland, 1/2020).</b> OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist
RNA Polymerase Dilution Buffer Glycerol	<b>NAOSH (Ireland, 1/2020).</b> OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
5X Transcription Buffer Trometamol  Sodium chloride	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	295.52 mg/kg bw/day	Workers	Systemic
DNEL	Long term Dermal	295.52 mg/kg bw/day	Workers	Systemic	

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## SECTION 8: Exposure controls/personal protection

Magnesium chloride	DNEL	Short term Inhalation	kg bw/day 443.28 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	443.28 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	2068.62 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	2068.62 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic

### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	T7 RNA Polymerase	Liquid.
	RNA Polymerase	Liquid.
	Dilution Buffer	
	5X Transcription Buffer	Liquid.
<b>Colour</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.
<b>Odour</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.
<b>Odour threshold</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.
<b>Melting point/freezing point</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	0°C
<b>Initial boiling point and boiling range</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	100°C (212°F)
<b>Flammability (solid, gas)</b>	T7 RNA Polymerase	Not applicable.
	RNA Polymerase	Not applicable.
	Dilution Buffer	
	5X Transcription Buffer	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.

#### Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>T7 RNA Polymerase</b>						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				
<b>RNA Polymerase Dilution Buffer</b>						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

#### Auto-ignition temperature

:

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## SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
<b>T7 RNA Polymerase</b>			
Glycerol	370	698	VDI 2263
Edetic acid	>400	>752	
<b>RNA Polymerase Dilution Buffer</b>			
Glycerol	370	698	VDI 2263
Edetic acid	>400	>752	

<b>Decomposition temperature</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not available. Not available. Not available. Not available.
<b>pH</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	7.7 7.7 8
<b>Viscosity</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not available. Not available. Not available. Not available.
<b>Solubility(ies)</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not applicable. Not applicable. Not applicable.

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>T7 RNA Polymerase</b>						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
<b>RNA Polymerase Dilution Buffer</b>						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
<b>5X Transcription Buffer</b>						
Water	23.8	3.2		92.258	12.3	
Trometamol	<0.00075006	<0.0001				

<b>Evaporation rate</b>	:	T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	Not available. Not available. Not available. Not available.
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## SECTION 9: Physical and chemical properties

<b>Relative density</b>	: T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.
<b>Vapour density</b>	: T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.
<b>Oxidising properties</b>	: T7 RNA Polymerase	Not available.
	RNA Polymerase	Not available.
	Dilution Buffer	
	5X Transcription Buffer	Not available.

### Particle characteristics

<b>Median particle size</b>	: T7 RNA Polymerase	Not applicable.
	RNA Polymerase	Not applicable.
	Dilution Buffer	
	5X Transcription Buffer	Not applicable.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: T7 RNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
	RNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
	Dilution Buffer	
	5X Transcription Buffer	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: T7 RNA Polymerase	The product is stable.
	RNA Polymerase	The product is stable.
	Dilution Buffer	
	5X Transcription Buffer	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: T7 RNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	Dilution Buffer	
	5X Transcription Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: T7 RNA Polymerase	No specific data.
	RNA Polymerase	No specific data.
	Dilution Buffer	
	5X Transcription Buffer	No specific data.
<b>10.5 Incompatible materials</b>	: T7 RNA Polymerase	May react or be incompatible with oxidising materials.
	RNA Polymerase	May react or be incompatible with oxidising materials.
	Dilution Buffer	
	5X Transcription Buffer	May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: T7 RNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Dilution Buffer	
	5X Transcription Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>5X Transcription Buffer</b>				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>5X Transcription Buffer</b>					
Sodium chloride	3000	N/A	N/A	N/A	N/A
Magnesium chloride	2800	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>5X Transcription Buffer</b>					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

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## SECTION 11: Toxicological information

<b>Inhalation</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Ingestion</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Skin contact</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Eye contact</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	: T7 RNA Polymerase	No specific data.
	RNA Polymerase	No specific data.
	Dilution Buffer	
	5X Transcription Buffer	No specific data.
<b>Ingestion</b>	: T7 RNA Polymerase	No specific data.
	RNA Polymerase	No specific data.
	Dilution Buffer	
	5X Transcription Buffer	No specific data.
<b>Skin contact</b>	: T7 RNA Polymerase	No specific data.
	RNA Polymerase	No specific data.
	Dilution Buffer	
	5X Transcription Buffer	No specific data.
<b>Eye contact</b>	: T7 RNA Polymerase	No specific data.
	RNA Polymerase	No specific data.
	Dilution Buffer	
	5X Transcription Buffer	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: T7 RNA Polymerase	No known significant effects or critical hazards.
	RNA Polymerase	No known significant effects or critical hazards.
	Dilution Buffer	
	5X Transcription Buffer	No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

<b>Reproductive toxicity</b>	: T7 RNA Polymerase RNA Polymerase Dilution Buffer 5X Transcription Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>5X Transcription Buffer</b> Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
Magnesium chloride	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 µg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
Magnesium chloride	Acute LC50 32000 µg/l Fresh water	Daphnia - Daphnia hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>5X Transcription Buffer</b> Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>5X Transcription Buffer</b> Trometamol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>5X Transcription Buffer</b> Trometamol	-2.31	-	low

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## SECTION 12: Ecological information

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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## SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

## SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Label	:	T7 RNA Polymerase	Not applicable.
		RNA Polymerase Dilution	Not applicable.
		Buffer	
		5X Transcription Buffer	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

<b>Australia</b>	:	Not determined.
<b>Canada</b>	:	At least one component is not listed in DSL but all such components are listed in NDSL.
<b>China</b>	:	All components are listed or exempted.
<b>Europe</b>	:	All components are listed or exempted.
<b>Japan</b>	:	<b>Japan inventory (CSCL):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	:	All components are listed or exempted.
<b>Philippines</b>	:	Not determined.

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## SECTION 15: Regulatory information

Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<b>5X Transcription Buffer</b> Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

<b>5X Transcription Buffer</b> H315 H319 H410 H412	Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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### Full text of classifications [CLP/GHS]

<b>5X Transcription Buffer</b> Aquatic Chronic 1 Aquatic Chronic 3 Eye Irrit. 2 Skin Irrit. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2
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**Date of issue/ Date of revision** : 22/03/2022

**Date of previous issue** : No previous validation

**Version** : 1

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