# **SAFETY DATA SHEET**



SP6 RNA Polymerase - 3000U, Part Number 600151

# Section 1. Identification

Product identifier Part no. (chemical kit) Part no.	<ul> <li>SP6 RNA Polymerase - 3000U, Part Number 600151</li> <li>600151</li> <li>5X Transcription Buffer 600110-82 RNA Polymerase Dilution Buffer 600110-83 SP6 RNA Polymerase 600151-51</li> </ul>	
Relevant identified uses of th	e substance or mixture and uses advised	against
Material uses	: Analytical reagent. 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	1 ml 1 ml 0.06 ml (3000 U 50 U/µl)
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994	

# Section 2. Hazard(s) identification

Classification of the substance or mixture			
Transcription Buffer			
H412	LONG-TERM (CHRONIC) AQU	JATIC HAZARD - Category 3	
GHS label elements			
Signal word	: 5X Transcription Buffer	No signal word.	
	RNA Polymerase Dilution Buffer	No signal word.	
	SP6 RNA Polymerase	No signal word.	
Hazard statements	: 🕏 Transcription Buffer RNA Polymerase Dilution Buffer	H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards.	
	SP6 RNA Polymerase	No known significant effects or critical hazards.	
Precautionary statements	-	-	
Prevention	: 🕏 Transcription Buffer	P273 - Avoid release to the environment.	
	RNA Polymerase Dilution Buffer	Not applicable.	
	SP6 RNA Polymerase	Not applicable.	
Response	: 5X Transcription Buffer	Not applicable.	
	RNA Polymerase Dilution Buffer	Not applicable.	
	SP6 RNA Polymerase	Not applicable.	
Storage	: 5X Transcription Buffer	Not applicable.	
	RNA Polymerase Dilution Buffer	Not applicable.	
	SP6 RNA Polymerase	Not applicable.	

### Section 2. Hazard(s) identification

Disposal	: 🗗 Transcription Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	RNA Polymerase Dilution Buffer	Not applicable.
	SP6 RNA Polymerase	Not applicable.
Supplemental label elements		
Additional warning	: 5X Transcription Buffer	Not applicable.
phrases	RNA Polymerase Dilution Buffer	Not applicable.
	SP6 RNA Polymerase	Not applicable.
Other hazards which do not	: 5X Transcription Buffer	None known.
result in classification	RNA Polymerase Dilution Buffer	None known.
	SP6 RNA Polymerase	None known.

### Section 3. Composition and ingredient information

Substance/mixture	: 5X Transcription Buffer RNA Polymerase Dilution	Mixture Mixture
	Buffer SP6 RNA Polymerase	Mixture

#### **CAS number/other identifiers**

Ingredient name	% (w/w)	CAS number
<b>X</b> Transcription Buffer Magnesium chloride	≤1	7786-30-3
RNA Polymerase Dilution Buffer Glycerol	≥30 - ≤60	56-81-5
<b>SP6 RNA Polymerase</b> Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

### Section 4. First aid measures

Description of necess	ary first aid measures	
Eye contact	: 🕅 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.
	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.
	SP6 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.

# Section 4. First aid measures

Inhalation :	X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	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 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact :	SX Transcription Buffer RNA Polymerase Dilution 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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	SP6 RNA Polymerase	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion :	K 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, heat enumerated
	RNA Polymerase Dilution Buffer	belt or waistband. 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.
	SP6 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.
Most important symptoms/effec	cts, acute and delayed	
Potential acute health effects		
Eye contact :	5X Transcription Buffer RNA Polymerase Dilution Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Date of issue/Date of revision : 18	SP6 RNA Polymerase Date of previous	No known significant effects or critical hazards. <i>issue</i> : 19/08/2019 Version : 6 3/17

# Section 4. First aid measures

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Buffer	Ingestion	:	5X Transcription Buffer	No specific data.
SP6 RNA Polymerase No specific data.				No specific data.
			SP6 RNA Polymerase	No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: 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.
	RNA Polymerase Dilution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SP6 RNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 5X Transcription Buffer RNA Polymerase Dilution Buffer	No specific treatment. No specific treatment.
	SP6 RNA Polymerase	No specific treatment.
Protection of first-aiders	: 🕏 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.
	RNA Polymerase Dilution Buffer SP6 RNA Polymerase	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Firefighting measures

Extinguishing media		
Suitable extinguishing media	: 5X Transcription Buffer	Use an extinguishing agent suitable for the surrounding fire.
	RNA Polymerase Dilution Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SP6 RNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	RNA Polymerase Dilution Buffer	None known. None known.
	SP6 RNA Polymerase	None known.
Specific hazards arising from the chemical	: <section-header> Transcription Buffer</section-header>	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 material must be contained and prevented from being discharged to any waterway, sewer or drain.
	RNA Polymerase Dilution Buffer SP6 RNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 5X Transcription Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	RNA Polymerase Dilution Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SP6 RNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: 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
	RNA Polymerase Dilution Buffer	without suitable training. 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.
	SP6 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.
Special protective equipment for fire-fighters	: 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.
	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.
	SP6 RNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
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# Section 5. Firefighting measures

pressure mode.

### Section 6. Accidental release measures

Personal precautions, protect	ive equipment and emergend	cy procedures
For non-emergency personnel	: 🕅 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 vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
	SP6 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.
For emergency responders	: 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".
	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".
	SP6 RNA Polymerase	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".
Environmental precautions	: <b>5</b> X 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.
	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).
	SP6 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).

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

# Section 6. Accidental release measures

Methods for cleaning up	: 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.
	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.
	SP6 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.

# Section 7. Handling and storage

Precautions for safe handling	3	
Protective measures	: 🕅 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.
	RNA Polymerase Dilution Buffer SP6 RNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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.
	RNA Polymerase 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.
	SP6 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.

### Section 7. Handling and storage

	0 0	
Conditions for safe storage, including any incompatibilities	: 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.
	RNA Polymerase 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.
	SP6 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.

### Section 8. Exposure controls and personal protection

### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits			
RNA Polymerase Dilution Buffer				
Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m <sup>3</sup> 8 hours.			
SP6 RNA Polymerase				
Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m <sup>3</sup> 8 hours.			

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

#### Individual protection measures

### Section 8. Exposure controls and personal protection

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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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.

# Section 9. Physical and chemical properties and safety characteristics

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

**Appearance** 

Physical state	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	Liquid. Liquid.
		SP6 RNA Polymerase	Liquid.
Colour	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	Not available. Not available.
		SP6 RNA Polymerase	Not available.
Odour	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	Not available. Not available.
		SP6 RNA Polymerase	Not available.
Odour threshold	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	Not available. Not available.
		SP6 RNA Polymerase	Not available.
рН	1	5X Transcription Buffer	8
		RNA Polymerase Dilution Buffer	7.7
		SP6 RNA Polymerase	7.7
Melting point/freezing point	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	0°C (32°F) Not available.
		SP6 RNA Polymerase	Not available.

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### Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range	:	: 5X Transcription Buffer 100°C (212°F) RNA Polymerase Dilution Not available. Buffer							
		SP6 RNA Polymeras	e	Not avail	lable.				
Flash point	1			Closed	cup		Open o	cup	
		Ingredient name	°C	°F	Method	°C	°F	Method	
		RNA Polymerase Dilution Buffer							
		Edetic acid	>100	>212	DIN 51758				
		(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230					
		SP6 RNA Polymerase							
		(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230					
		Glycerol				177	350.6		
Evaporation rate	:	5X Transcription Buf RNA Polymerase Dil Buffer		Not avail Not avail					
		SP6 RNA Polymeras	e	Not avail	lable.				
Flammability	:	5X Transcription Buf RNA Polymerase Dil Buffer		Not appli Not appli					
		SP6 RNA Polymeras	e	Not appl	icable.				
Lower and upper explosion imit/flammability limit	:	5X Transcription Buf RNA Polymerase Dil	fer	Not avail Not avail	lable.				
		Buffer SP6 RNA Polymeras	_						
			e	Not avail	lable.				
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/apour pressure	:	Ingredient name	1			Vapo mm Hg	bur pressu kPa	ure at 50°C Method	
/apour pressure	:		Vapou mm Hg	ır Pressu	ire at 20°C	mm	-	1	
/apour pressure	:	Ingredient name	Vapou mm Hg	ır Pressu	ire at 20°C	mm	-	1	
Vapour pressure	:	Ingredient name	Vapou mm Hg	Ir Pressu kPa	ire at 20°C	mm Hg	kPa	1	
Vapour pressure	:	Ingredient name	Vapou mm Hg 23.8	Ir Pressu kPa	ire at 20°C	mm Hg	kPa	1	
/apour pressure	:	Ingredient name Transcription Buffer water Trometamol RNA Polymerase	Vapou mm Hg 23.8	Ir Pressu kPa	ire at 20°C	mm Hg	kPa	1	
Vapour pressure	:	Ingredient name Transcription Buffer water Trometamol RNA Polymerase Dilution Buffer	Vapou mm Hg 23.8 <0.00075006	Ir Pressu           kPa           3.2           <0.0001	ire at 20°C	<b>mm</b> <b>Hg</b> 92.258	<b>kPa</b> 12.3	1	
Vapour pressure	:	Ingredient name Transcription Buffer water Trometamol RNA Polymerase Dilution Buffer water	Vapou mm Hg 23.8 <0.00075006 23.8	Ir Pressu           kPa           3.2           <0.0001	ire at 20°C	mm         Hg           92.258         92.258           92.258         92.258	kPa 12.3 12.3	1	
Vapour pressure	:	Ingredient name  X Transcription Buffer water Trometamol  RNA Polymerase Dilution Buffer water Glycerol	Vapou mm Hg 23.8 <0.00075006 23.8	Ir Pressu           kPa           3.2           <0.0001	ire at 20°C	mm         Hg           92.258         92.258           92.258         92.258	kPa 12.3 12.3	1	
Vapour pressure	:	Ingredient name Transcription Buffer water Trometamol RNA Polymerase Dilution Buffer water Glycerol SP6 RNA Polymerase	Vapou mm Hg 23.8 <0.00075006 23.8 0.000075 23.8	Ir Pressu           kPa           3.2           <0.0001	ire at 20°C	mm         Hg           92.258         92.258           92.258         0.0025	kPa 12.3 12.3 0.00033	1	
	:	Ingredient name	Vapou mm Hg 23.8 <0.00075006 23.8 0.000075 23.8 0.000075 fer ution	Ir Pressu           kPa           3.2           <0.0001	Method Method	mm Hg           92.258           92.258           0.0025           92.258	kPa 12.3 12.3 0.00033 12.3	1	
Relative vapour density		Ingredient name	Vapou mm Hg 23.8 <0.00075006 23.8 0.000075 23.8 0.000075 fer ution	Ir Pressu           kPa           3.2           <0.0001	are at 20°C Method	mm Hg           92.258           92.258           0.0025           92.258	kPa 12.3 12.3 0.00033 12.3	1	
Vapour pressure Relative vapour density Relative density		Ingredient name Trometamol RNA Polymerase Dilution Buffer water Glycerol SP6 RNA Polymerase water Glycerol SX Transcription Buf RNA Polymerase Dil Buffer SP6 RNA Polymerase Dil Buffer SP6 RNA Polymerase Dil Buffer SP6 RNA Polymerase Dil Buffer	Vapou mm Hg 23.8 <0.00075006 23.8 0.000075 23.8 0.000075 fer ution se fer ution	Ir Pressu           kPa           3.2           <0.0001	able. lable. lable.	mm Hg           92.258           92.258           0.0025           92.258	kPa 12.3 12.3 0.00033 12.3	1	
Relative vapour density		Ingredient name  Trometamol  RNA Polymerase Dilution Buffer water Glycerol SP6 RNA Polymerase water Glycerol 5X Transcription Buf RNA Polymerase Dil Buffer SP6 RNA Polymerase Dil Buffer	Vapou mm Hg 23.8 <0.00075006 23.8 0.000075 23.8 0.000075 fer ution se fer ution	Ir Pressu           kPa           3.2           <0.0001	Are at 20°C	mm Hg           92.258           92.258           0.0025           92.258	kPa 12.3 12.3 0.00033 12.3	1	

Date of issue/Date of revision

:18/04/2022

# Section 9. Physical and chemical properties and safety characteristics

Characteristics Solubility		5X Transcription Buffer	Facily colu	le in the follo	wing materials: cold water	
Solubility	•	RNA Polymerase Dilution	Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot			
		Buffer SP6 RNA Polymerase	water. Soluble in t water.	he following m	naterials: cold water and hot	
Partition coefficient: n- octanol/water	:	X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	Not applica Not applica Not applica	ble.		
Auto-ignition temperature	:	Ingredient name	°C	°F	Method	
		RNA Polymerase Dilution Buffer				
		Glycerol	370	698		
		Edetic acid	>400	>752	VDI 2263	
		SP6 RNA Polymerase				
		Glycerol	370	698		
Decomposition temperature	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	Not availab Not availab			
		SP6 RNA Polymerase	Not availab	le.		
Viscosity	:	5X Transcription Buffer RNA Polymerase Dilution	Not availab Not availab			
		Buffer SP6 RNA Polymerase	Not availab	le.		
Particle characteristics		N Transprintion Duffer	Netensie	hla		
Median particle size	•	X Transcription Buffer RNA Polymerase Dilution Buffer	Not applica Not applica			
		SP6 RNA Polymerase	Not applica	ble.		
Section 10. Stabili	ty	and reactivity				
Reactivity	1	5X Transcription Buffer	•	test data relation test data relation	ted to reactivity available for ents.	
		RNA Polymerase Dilution Buffer		test data relation test data relation test data relation test test ingrediation test ingrediation test test test test test test test tes	ted to reactivity available for	
		SP6 RNA Polymerase	No specific		ted to reactivity available for	
Chemical stability	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	The produc The produc			
Chemical stability	:	RNA Polymerase Dilution		t is stable.		
Possibility of hazardous		RNA Polymerase Dilution Buffer SP6 RNA Polymerase 5X Transcription Buffer	The produce The produce Under norm hazardous	t is stable. t is stable. nal conditions reactions will		
Possibility of hazardous		RNA Polymerase Dilution Buffer SP6 RNA Polymerase	The produce The produce Under norm hazardous Under norm hazardous Under norm	t is stable. t is stable. nal conditions reactions will nal conditions reactions will	not occur. of storage and use, not occur. of storage and use,	
Chemical stability Possibility of hazardous reactions	:	RNA Polymerase Dilution Buffer SP6 RNA Polymerase 5X Transcription Buffer RNA Polymerase Dilution Buffer	The produce The produce Under norm hazardous Under norm hazardous Under norm	t is stable. t is stable. nal conditions reactions will nal conditions reactions will nal conditions reactions will data.	not occur. of storage and use, not occur. of storage and use,	

Date of previous issue

:19/08/2019

11/17

Version : 6

# Section 10. Stability and reactivity

Incompatible materials	: 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: 5X Transcription Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Polymerase Dilution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SP6 RNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
5X Transcription Buffer				
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
RNA Polymerase Dilution Buffer				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SP6 RNA Polymerase				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
RNA Polymerase Dilution					
Buffer					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
-				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
SP6 RNA Polymerase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
-				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

**Sensitisation** 

Not available.

Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
Carcinogenicity	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
Teratogenicity	
<b>Conclusion/Summary</b>	: Not available.

Date of issue/Date of revision : 18/04/2022

### Section 11. Toxicological information

#### 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	1	5X Transcription Buffer RNA Polymerase Dilution	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
		Buffer SP6 RNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	5		
Eye contact		5X Transcription Buffer RNA Polymerase Dilution Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
		SP6 RNA Polymerase	No known significant effects or critical hazards.
Inhalation	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
		SP6 RNA Polymerase	No known significant effects or critical hazards.
Skin contact	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
		SP6 RNA Polymerase	No known significant effects or critical hazards.
Ingestion	:	5X Transcription Buffer RNA Polymerase Dilution Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
		SP6 RNA Polymerase	No known significant effects or critical hazards.

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

Eye contact	: 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	No specific data. No specific data. No specific data.
Inhalation	: 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	No specific data. No specific data. No specific data.
Skin contact	: 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	No specific data. No specific data. No specific data.
Ingestion	: 5X Transcription Buffer RNA Polymerase Dilution Buffer SP6 RNA Polymerase	No specific data. No specific data. No specific data.

Delayed and immediate effe	cts as well as	chronic effects from sho	ort and long-term ex	<u>posure</u>
<u>Short term exposure</u>				
Potential immediate effects	: Not availa	ble.		
Potential delayed effects	: Not availa	ble.		
<u>Long term exposure</u>				
Potential immediate effects	: Not availa	ble.		
Date of issue/Date of revision	: 18/04/2022	Date of previous issue	: 19/08/2019	Version

:6

### Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

General	: 5X Transcription Buffer	No known significant effects or critical hazards.
	RNA Polymerase Dilution Buffer	No known significant effects or critical hazards.
	SP6 RNA Polymerase	No known significant effects or critical hazards.
Carcinogenicity	: 5X Transcription Buffer	No known significant effects or critical hazards.
	RNA Polymerase Dilution Buffer	No known significant effects or critical hazards.
	SP6 RNA Polymerase	No known significant effects or critical hazards.
Mutagenicity	: 5X Transcription Buffer	No known significant effects or critical hazards.
	RNA Polymerase Dilution Buffer	No known significant effects or critical hazards.
	SP6 RNA Polymerase	No known significant effects or critical hazards.
Reproductive toxicity	: 😿 Transcription Buffer	No known significant effects or critical hazards.
	RNA Polymerase Dilution Buffer	No known significant effects or critical hazards.
	SP6 RNA Polymerase	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### 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> Magnesium chloride	2800	N/A	N/A	N/A	N/A
RNA Polymerase Dilution Buffer Glycerol	12600	N/A	N/A	N/A	N/A
SP6 RNA Polymerase Glycerol	12600	N/A	N/A	N/A	N/A

**Other information** 

- : 5X Transcription Buffer
- RNA Polymerase Dilution Buffer SP6 RNA Polymerase

Adverse symptoms may include the following: May cause skin sensitisation. Not available.

Not available.

# Section 12. Ecological information

<u>Toxicity</u>			•
Product/ingredient name	Result	Species	Exposure
5X Transcription Buffer			
Magnesium chloride	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
	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
Date of issue/Date of revision	: 18/04/2022 Date of previous issue	: 19/08/2019 Version	:6 14/

# Section 12. Ecological information

	<u>j</u>		
RNA Polymerase Dilution Buffer Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SP6 RNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
RNA Polymerase Dilution Buffer				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SP6 RNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
RNA Polymerase Dilution Buffer Glycerol	-1.76	-	low
SP6 RNA Polymerase Glycerol	-1.76	-	low

### <u>Mobility in soil</u>

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

ADG / IMDG / IATA	: Not regulated as Dangerous Goo	ds according to the ADG Code.
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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.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

Standard for the Uniform	<u>Scheduling of Medicines and Poisons</u>
Not regulated.	
Model Work Health and S	Safety Regulations - Scheduled Substances
No listed substance	
International regulations	
Chemical Weapon Conv	vention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Not listed.	on reisistent organic ronutants
	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protoco	ol on POPs and Heavy Metals
Not listed.	
Inventory list	
Australia	: Not determined.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: 🗚 components are active or exempted.
Viet Nam	: 🕅 components are listed or exempted.

### Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 18/04/2022
Date of previous issue	: 19/08/2019
Version	: 6
Key to abbreviations	: ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations
Procedure used to derive t	he classification

Procedure used to derive the classification

Classification	Justification
<b>X Transcription Buffer</b> LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method

References : Not available.

**Indicates information that has changed from previously issued version.** 

#### Notice to reader

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