# SAFETY DATA SHEET



SP6 RNA Polymerase - 3000U, Part Number 600151

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

1.1 Product identifier

Product name : SP6 RNA Polymerase - 3000U, Part Number 600151

Part no. (chemical kit) : 600151

Part no. : 5X Transcription Buffer 600110-82 RNA Polymerase 600110-83

Dilution Buffer

SP6 RNA Polymerase 600151-51

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

Material uses : Analytical reagent.

5X Transcription Buffer 1 ml RNA Polymerase Dilution Buffer 1 ml

SP6 RNA Polymerase 0.06 ml (3000 U 50 U/μl)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

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 : 5X Transcription Buffer Mixture RNA Polymerase Mixture

Dilution Buffer

SP6 RNA Polymerase 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

: 5X Transcription Buffer

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

RNA Polymerase Dilution Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

SP6 RNA Polymerase Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

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

Buffer

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

#### 2.2 Label elements

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

Signal word : 5X Transcription Buffer **RNA** Polymerase

Dilution Buffer

SP6 RNA Polymerase

: 5X Transcription Buffer **Hazard statements** 

**RNA** Polymerase **Dilution Buffer** 

SP6 RNA Polymerase

No signal word. No signal word.

No signal word.

H412 - Harmful to aquatic life with long lasting effects.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Precautionary statements** 

Response

**Storage** 

**Disposal** 

**Prevention** 

**RNA Polymerase** Dilution Buffer

5X Transcription Buffer

RNA Polymerase **Dilution Buffer** 

5X Transcription Buffer **RNA** Polymerase

**RNA** Polymerase **Dilution Buffer** 

5X Transcription Buffer

**Hazardous ingredients** Supplemental label

elements

**Annex XVII - Restrictions** on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

: 5X Transcription Buffer

SP6 RNA Polymerase

SP6 RNA Polymerase

**Dilution Buffer** SP6 RNA Polymerase

: 5X Transcription Buffer

SP6 RNA Polymerase

5X Transcription Buffer **RNA** Polymerase **Dilution Buffer** 

SP6 RNA Polymerase 5X Transcription Buffer

**RNA** Polymerase **Dilution Buffer** 

SP6 RNA Polymerase

P273 - Avoid release to the environment.

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Special packaging requirements

**Tactile warning of** 

danger

: 5X Transcription Buffer **RNA** Polymerase

**Dilution Buffer** 

SP6 RNA Polymerase

Not applicable. Not applicable.

Not applicable.

2.3 Other hazards

**Product meets the** criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: 5X Transcription Buffer

**RNA** Polymerase **Dilution Buffer** SP6 RNA Polymerase 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.

Other hazards which do not result in

classification

: 5X Transcription Buffer **RNA** Polymerase **Dilution Buffer** 

SP6 RNA Polymerase

None known. None known.

None known.

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

3.1 Substances : 5X Transcription Buffer Mixture
RNA Polymerase Dilution Buffer Mixture
SP6 RNA Polymerase Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
5X Transcription Buffer				
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)	[1]
RNA Polymerase Dilution Buffer				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
SP6 RNA Polymerase				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

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

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

#### 4.1 Description of first aid measures

Eye contact : 5X Transcription Buffer

RNA Polymerase Dilution Buffer

SP6 RNA Polymerase

Inhalation : 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.

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. 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.

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.

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

The exposed person may need to be kept under medical

surveillance for 48 hours.

**RNA** Polymerase Remove victim to fresh air and keep at rest in a position **Dilution Buffer** comfortable for breathing. Get medical attention if

symptoms occur.

SP6 RNA Polymerase Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Skin contact : 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.

**RNA** Polymerase Dilution Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

SP6 RNA Polymerase Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : 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

RNA Polymerase Dilution Buffer

tight clothing such as a collar, tie, 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.

Wash out mouth with water. If material has been swallowed SP6 RNA Polymerase

> 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.

**Protection of first-aiders** : 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. No action shall be taken involving any personal risk or

Dilution Buffer without suitable training.

SP6 RNA Polymerase No action shall be taken involving any personal risk or

without suitable training.

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

RNA Polymerase

Potential acute health effects

**Eye contact** : 5X Transcription Buffer No known significant effects or critical hazards.

SP6 RNA Polymerase

RNA Polymerase No known significant effects or critical hazards. **Dilution Buffer** 

No known significant effects or critical hazards. Inhalation : 5X Transcription Buffer No known significant effects or critical hazards.

**RNA Polymerase** No known significant effects or critical hazards. **Dilution Buffer** 

SP6 RNA Polymerase No known significant effects or critical hazards.

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

**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
5X Transcription Buffer

SP6 RNA Polymerase

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

RNA Polymerase Dilution Buffer

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Ingestion

Inhalation

**Eye contact** : 5X Transcription Buffer

5X Transcription Buffer No specific data. RNA Polymerase No specific data.

Dilution Buffer SP6 RNA Polymerase

No specific data. No specific data.

: 5X Transcription Buffer RNA Polymerase

Dilution Buffer SP6 RNA Polymerase

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

No specific data. No specific data.

SP6 RNA Polymerase

No specific data.

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

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

RNA Polymerase Dilution Buffer

SP6 RNA Polymerase

to be kept under medical surveillance for 48 hours.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**: 5X Transcription Buffer

RNA Polymerase
Dilution Buffer

Dilution Buffer SP6 RNA Polymerase No specific treatment. No specific treatment.

No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: 5X Transcription Buffer RNA Polymerase Dilution Buffer Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

SP6 RNA Polymerase

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: 5X Transcription Buffer RNA Polymerase

lymerase None known.

Dilution Buffer SP6 RNA Polymerase

None known.

None known.

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

Hazards from the substance or mixture

: 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 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.

on Buffer container may burs

In a fire or if heated, a pressure increase will occur and the

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

**Hazardous combustion** products

: 5X Transcription Buffer

container may burst.

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

5.3 Advice for firefighters

**Special precautions 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 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

Dilution Buffer SP6 RNA Polymerase

**RNA** Polymerase

taken involving any personal risk or 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.

**Special protective** equipment for firefighters

: 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.

**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.

SP6 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.

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

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

For non-emergency personnel

: 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 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

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### SECTION 6: Accidental release measures

For emergency responders

appropriate personal protective equipment.5X Transcription Buffer If specialised clothing is required to deal with

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".

**6.2 Environmental precautions** 

: 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.

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).

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

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.

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

Protective measures : 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.

RNA Polymerase Put on appropriate personal protective equipment (see

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### **SECTION 7: Handling and storage**

Dilution Buffer Section 8).

SP6 RNA Polymerase Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene

: 5X Transcription Buffer

**RNA** Polymerase

SP6 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. 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. 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

Storage : 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.

# 7.3 Specific end use(s)

Recommendations

: 5X Transcription Buffer RNA Polymerase Dilution Buffer

SP6 RNA Polymerase

Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications, Professional applications.

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### **SECTION 7: Handling and storage**

Industrial sector specific : 5X Transcription Buffer solutions

**RNA** Polymerase

Not available. Not available.

**Dilution Buffer** SP6 RNA Polymerase

Not available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
RNA Polymerase Dilution Buffer	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: Mist
SP6 RNA Polymerase	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 mg/m³ 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	DNEL	Long term Oral	8.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	29 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term Dermal	83.3 mg/kg	population General	Systemic
	DIVLL	Long term Dermai	bw/day	population	Oysternic
	DNEL	Long term	117.5 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Long term Dermal	166.7 mg/	Workers	Systemic
Cadiona ablanta	DNE	Object to make One I	kg bw/day	0	0
Sodium chloride	DNEL	Short term Oral	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	126.65 mg/	General	Systemic
	D.1122	Long tom Oran	kg bw/day	population	- Cyotolillo
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 295.52 mg/	population Workers	Systemic
	DIVLL	Onort term Dermai	kg bw/day	VVOIREIS	Oysternic
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term	443.28 mg/	General	Systemic
	DNEL	Inhalation	m <sup>3</sup>	population General	Cyntomia
	DINEL	Long term Inhalation	443.28 mg/ m <sup>3</sup>	population	Systemic
	DNEL	Short term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	2068.62	Workers	Systemic
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### **SECTION 8: Exposure controls/personal protection**

Magnesium chloride	DNEL	Inhalation Long term Oral	mg/m³ 7 mg/kg	General	Systemic
			bw/day	population	

#### **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 sideshields.

### **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.

# **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**

Physical state : 5X Transcription Buffer Liquid. RNA Polymerase Liquid.

RNA Polymerase Dilution Buffer

Liquiu.

SP6 RNA Polymerase

Liquid.

Colour

5X Transcription Buffer RNA Polymerase Dilution Buffer

Not available. Not available.

SP6 RNA Polymerase Not available.

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

**Odour** 

5X Transcription Buffer

**RNA** Polymerase

Not available. Not available.

**Dilution Buffer** SP6 RNA Polymerase Not available.

**Odour threshold** 

5X Transcription Buffer **RNA** Polymerase

**Dilution Buffer** 

Not available. Not available.

Not available.

Melting point/freezing point

SP6 RNA Polymerase 5X Transcription Buffer

0°C

Initial boiling point and

boiling range

**RNA** Polymerase **Dilution Buffer** SP6 RNA Polymerase

Not available. Not available.

5X Transcription Buffer **RNA** Polymerase Dilution Buffer

SP6 RNA Polymerase

100°C (212°F) Not available.

Flammability (solid, gas)

5X Transcription Buffer **RNA** Polymerase Dilution Buffer SP6 RNA Polymerase

Not available. Not applicable. Not applicable.

**Upper/lower flammability** or explosive limits

5X Transcription Buffer **RNA** Polymerase

Not applicable. Not available. Not available.

Dilution Buffer SP6 RNA Polymerase

Not available.

Flash point

		Closed cup			Open 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		

**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

Not available. Not available.

**Dilution Buffer** 

SP6 RNA Polymerase

Not available.

pН

5X Transcription Buffer **RNA Polymerase** 

7.7

**Dilution Buffer** SP6 RNA Polymerase

7.7

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### SECTION 9: Physical and chemical properties

5X Transcription Buffer **Viscosity** 

**RNA** Polymerase

Not available. Not available.

**Dilution Buffer** 

SP6 RNA Polymerase Not available.

Solubility(ies) : 5X Transcription Buffer

Easily soluble in the following materials: cold water and hot

water.

RNA Polymerase Dilution Buffer SP6 RNA Polymerase

Soluble in the following materials: cold water and hot water.

Soluble in the following materials: cold water and hot water.

Partition coefficient: noctanol/water

: 5X Transcription Buffer **RNA** Polymerase

Not applicable. Not applicable.

**Dilution Buffer** 

SP6 RNA Polymerase Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vap	our press	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
5X Transcription Buffer						
water	23.8	3.2		92.258	12.3	
Trometamol	<0.00075006	<0.0001				
RNA Polymerase Dilution Buffer						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
SP6 RNA Polymerase						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	

**Evaporation rate** : 5X Transcription Buffer

**RNA** Polymerase

Not available. Not available.

Dilution Buffer SP6 RNA Polymerase 5X Transcription Buffer

Not available. Not available.

**RNA** Polymerase

Not available.

**Dilution Buffer** 

SP6 RNA Polymerase

Not available. Not available.

5X Transcription Buffer Vapour density

RNA Polymerase **Dilution Buffer** SP6 RNA Polymerase Not available.

**Oxidising properties** 

**Relative density** 

5X Transcription Buffer **RNA Polymerase** 

Not available. Not available. Not available.

**Dilution Buffer** SP6 RNA Polymerase

Not available.

**Particle characteristics** Median particle size

: 5X Transcription Buffer **RNA** Polymerase

Not applicable. Not applicable.

Dilution Buffer

SP6 RNA Polymerase Not applicable.

### 9.2 Other information

No additional information.

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

10.1 Reactivity

: 5X Transcription Buffer

No specific test data related to reactivity available for this

product or its ingredients.

**RNA** Polymerase Dilution Buffer SP6 RNA Polymerase No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

: 5X Transcription Buffer **RNA** Polymerase

The product is stable. The product is stable.

**Dilution Buffer** SP6 RNA Polymerase

The product is stable.

10.3 Possibility of hazardous reactions : 5X Transcription Buffer

Under normal conditions of storage and use, hazardous

reactions will not occur.

**RNA** Polymerase **Dilution Buffer** SP6 RNA Polymerase Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: 5X Transcription Buffer RNA Polymerase **Dilution Buffer** 

No specific data. No specific data.

SP6 RNA Polymerase

No specific data.

10.5 Incompatible materials

: 5X Transcription Buffer **RNA** Polymerase Dilution Buffer

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

SP6 RNA Polymerase

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : 5X Transcription Buffer

**RNA** Polymerase **Dilution Buffer** SP6 RNA Polymerase Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

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

### Irritation/Corrosion

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### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X Transcription Buffer					
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

: 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

5X Transcription Buffer

RNA Polymerase Dilution Buffer

SP6 RNA Polymerase

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

Inhalation

: 5X Transcription Buffer

RNA Polymerase Dilution Buffer

Dilution Buffer

No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion

SP6 RNA Polymerase 5X Transcription Buffer RNA Polymerase No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SP6 RNA Polymerase

: 5X Transcription Buffer

No known significant effects or critical hazards.

Skin contact

RNA Polymerase Dilution Buffer SP6 RNA Polymerase No known significant effects or critical hazards. No known significant effects or critical hazards.

**Eye contact** 

: 5X Transcription Buffer RNA Polymerase

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Dilution Buffer SP6 RNA Polymerase

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: 5X Transcription Buffer RNA Polymerase

No specific data. No specific data.

Dilution Buffer SP6 RNA Polymerase

No specific data.

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### **SECTION 11: Toxicological information**

Ingestion 5X Transcription Buffer No specific data.

RNA Polymerase **Dilution Buffer** 

No specific data.

SP6 RNA Polymerase Skin contact

5X Transcription Buffer **RNA** Polymerase

No specific data. No specific data. No specific data.

Dilution Buffer

SP6 RNA Polymerase

No specific data.

5X Transcription Buffer Eye contact

RNA Polymerase Dilution Buffer

No specific data. No specific data.

SP6 RNA Polymerase 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

General : 5X Transcription Buffer No known significant effects or critical hazards. No known significant effects or critical hazards.

**RNA** Polymerase **Dilution Buffer** SP6 RNA Polymerase

No known significant effects or critical hazards. No known significant effects or critical hazards.

5X Transcription Buffer Carcinogenicity **RNA** Polymerase

Dilution Buffer SP6 RNA Polymerase No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity 5X Transcription Buffer

**RNA** Polymerase **Dilution Buffer** 

No known significant effects or critical hazards. No known significant effects or critical hazards.

SP6 RNA Polymerase : 5X Transcription Buffer

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Reproductive toxicity **RNA** Polymerase

**Dilution Buffer** SP6 RNA Polymerase

No known significant effects or critical hazards.

Other information : 5X Transcription Buffer Adverse symptoms may include the following: May cause skin sensitisation.

RNA Polymerase **Dilution Buffer** 

Not available.

SP6 RNA Polymerase Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Result	Species	Exposure
Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
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
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 EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water Acute EC50 2430000 µg/l Fresh water Acute EC50 519.6 mg/l Fresh water Acute EC50 402.6 mg/l Fresh water	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water Acute EC50 2430000 µg/l Fresh water Acute EC50 519.6 mg/l Fresh water Acute EC50 402.6 mg/l Fresh water  Daphnia Daphnia Crustaceans - Cypris subglobosa Daphnia - Daphnia magna

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### **SECTION 12: Ecological information**

<u> </u>	giodi illioi illidiio		
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	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 -	8 weeks
		Adult	
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus	48 hours
		padanus ssp. padanus - Adult	
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna	96 hours
		aequinoctialis	
	Acute LC50 32000 μg/l Fresh water	Daphnia - Daphnia hyalina -	48 hours
		Adult	
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	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		Readily - 28 days	30 mg/l		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<b>5X Transcription Buffer</b> Trometamol	-		-		Readily	

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
5X Transcription Buffer			
Trometamol	-2.31	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

coefficient (100)

**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.

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### **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** 

**Packaging** 

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

**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 spilt 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.

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

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SP6 RNA Polymerase - 3000U, Part Number 600151

### **SECTION 15: Regulatory information**

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

Buffer

SP6 RNA Polymerase 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** 

**New Zealand** 

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 (ISHI): Not determined.

Japan inventory (ISHL): Not determined.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 : 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.

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SP6 RNA Polymerase - 3000U, Part Number 600151

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

### Full text of abbreviated H statements

5X Transcription Buffer	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

5X Transcription Buffer	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Eye Irrit. 2	SERIOUS EYÈ DAMAGE/EYE IRRITATION - Category 2

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#### **Notice to reader**

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