SAFETY DATA SHEET



Low Input QuickAmp WT Labeling Kit - No Dye, Part Number 5190-2942

Section 1. Identification

Product identifier : Low Input QuickAmp WT Labeling Kit - No Dye, Part Number 5190-2942

Part no. (chemical kit) : 5190-2942

Part no. : Muclease-Free Water 5190-2328

 T7 Primer
 5190-2320

 5X First Strand Buffer
 5190-2321

 0.1 M DTT
 5190-2322

 10 mM dNTP Mix
 5190-2323

 AffinityScript RT RNase Block Mix
 5190-2324

 5X Transcription Buffer
 5190-2325

 NTP Mix
 5190-2326

T7 RNA Polymerase Blend 5190-2327 WT Primer Mix 5190-2941

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

Material uses : Analytical reagent.

Nuclease-Free Water 0.25 ml T7 Primer 0.024 ml 5X First Strand Buffer 0.1 ml 0.1 M DTT 0.07 ml 10 mM dNTP Mix 0.02 ml AffinityScript RNase Block Mix 0.036 ml 5X Transcription Buffer 0.16 ml NTP Mix 0.035 ml T7 RNA Polymerase Blend 0.01 ml WT Primer Mix 0.03 ml

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

Not classified.

5X First Strand Buffer Percentage of the mixture consisting of ingredient(s)

of unknown hazards to the aquatic environment: 59% NTP Mix Percentage of the mixture consisting of ingredient(s)

of unknown hazards to the aquatic environment: 2.9%

GHS label elements

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Section 2. Hazard(s) identification

Muclease-Free Water
T7 Primer
No signal word.

Block Mix
5X Transcription Buffer No signal word.
NTP Mix No signal word.
T7 RNA Polymerase Bland No signal word.

T7 RNA Polymerase Blend No signal word. WT Primer Mix No signal word.

Hazard statements

Muclease-Free Water
T7 Primer
No known significant effects or critical hazards.

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

Precautionary statements

Prevention

Muclease-Free Water
T7 Primer
SX First Strand Buffer
0.1 M DTT
Not applicable.

Block Mix
5X Transcription Buffer
NTP Mix
Not applicable.

Response

Muclease-Free Water
T7 Primer
SX First Strand Buffer
0.1 M DTT
Not applicable.

Block Mix
5X Transcription Buffer
NTP Mix
Not applicable.

Storage

Muclease-Free Water
T7 Primer
SX First Strand Buffer
0.1 M DTT
Not applicable.
Slock Mix
Transcription Buffer
Not applicable.

NTP Mix
T7 RNA Polymerase Blend
WT Primer Mix
Not applicable.
Not applicable.
Not applicable.

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Section 2. Hazard(s) identification

• •	
: Nuclease-Free Water	Not applicable.
T7 Primer	Not applicable.
5X First Strand Buffer	Not applicable.
0.1 M DTT	Not applicable.
10 mM dNTP Mix	Not applicable.
AffinityScript RT RNase	Not applicable.
Block Mix	• •
5X Transcription Buffer	Not applicable.
NTP Mix	Not applicable.
	T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase Block Mix 5X Transcription Buffer

WT Primer Mix

T7 RNA Polymerase Blend

Supplemental label elements

Additional warning phrases

: Nuclease-Free Water Not applicable. T7 Primer Not applicable. 5X First Strand Buffer Not applicable. Not applicable. 0.1 M DTT 10 mM dNTP Mix Not applicable. AffinityScript RT RNase Not applicable. **Block Mix** 5X Transcription Buffer Not applicable. NTP Mix Not applicable. T7 RNA Polymerase Blend Not applicable. WT Primer Mix Not applicable.

Not applicable.

Not applicable.

Other hazards which do not result in classification

: Muclease-Free Water None known. T7 Primer None known. 5X First Strand Buffer None known. 0.1 M DTT None known. 10 mM dNTP Mix None known. AffinityScript RT RNase None known. Block Mix 5X Transcription Buffer None known. NTP Mix None known. T7 RNA Polymerase Blend None known. WT Primer Mix None known.

Section 3. Composition and ingredient information

Substance/mixture

Muclease-Free Water Substance T7 Primer Mixture 5X First Strand Buffer Mixture 0.1 M DTT Mixture 10 mM dNTP Mix Mixture AffinityScript RT RNase Mixture **Block Mix** 5X Transcription Buffer Mixture NTP Mix Mixture T7 RNA Polymerase Blend Mixture WT Primer Mix Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Nuclease-Free Water water	100	7732-18-5
AffinityScript RT RNase Block Mix Glycerol	≥30 - ≤60	56-81-5
5X Transcription Buffer Polyethylene glycol	≥10 - ≤30	25322-68-3
Deteration (Deteration and A0/04/0000 Deteration in the A0/04/0000	- 00/00/0040	Manaian a 0 0/04

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Section 3. Composition and ingredient information

T7 RNA Polymerase BlendGlycerol ≥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

December (1997)		Charles and all	
Description of	necessarv	tirst aid	measures

Eye contact: Muclease-Free Water 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.

T7 Primer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

5X First Strand 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.

0.1 M DTT 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.

10 mM dNTP Mix 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.

AffinityScript RT RNase

Block Mix

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

5X Transcription Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

NTP Mix 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.

T7 RNA Polymerase Blend 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.

WT Primer Mix 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.

Inhalation : Muclease-Free Water Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

T7 Primer Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

5X First Strand Buffer Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

0.1 M DTT Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

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attention if symptoms occur.

10 mM dNTP Mix Remove victim to fresh air ar

Mix Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

AffinityScript RT RNase

Block Mix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

5X Transcription Buffer Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical attention if symptoms occur. 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.

NTP Mix Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical attention if symptoms occur. 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.

T7 RNA Polymerase Blend Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

WT Primer Mix Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact : Muclease-Free Water Flush con

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

medical attention if symptoms occur.

T7 Primer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

5X First Strand Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

0.1 M DTT Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

10 mM dNTP Mix Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

AffinityScript RT RNase

Block Mix

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

medical attention if symptoms occur.

5X Transcription Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

NTP Mix Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

T7 RNA Polymerase Blend Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

WT Primer Mix Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion : Muclease-Free Water 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 and the exposed person is conscious, give

small quantities of water to drink. Do not induce

T7 Primer

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5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

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 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 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 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 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 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 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 and the exposed person is conscious, give

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 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.

small quantities of water to drink. Do not induce

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

Muclease-Free Water
T7 Primer
5X First Strand Buffer
0.1 M DTT
10 mM dNTP Mix
AffinityScript RT RNase
Block Mix
5X Transcription Buffer
NTP Mix
T7 RNA Polymerase Blend
WT Primer Mix

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

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

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Inhalation

: Muclease-Free Water
T7 Primer
5X First Strand Buffer
0.1 M DTT
10 mM dNTP Mix
AffinityScript RT RNase
Block Mix
5X Transcription Buffer

NTP Mix T7 RNA Polymerase Blend

WT Primer Mix

Skin contact : Muclease-Free Water T7 Primer

5X First Strand Buffer 0.1 M DTT

10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

Ingestion : Nuclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

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

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

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

No known significant effects or critical hazards.

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

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

Over-exposure signs/symptoms

Eye contact

: Muclease-Free Water
T7 Primer
5X First Strand Buffer
0.1 M DTT
10 mM dNTP Mix
AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

: Muclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend WT Primer Mix

No specific data.

No specific data. No specific data.

No specific data. No specific data.

No specific data.

No specific data. No specific data.

No specific data. No specific data.

No specific data.

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

No specific data. No specific data.

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

Inhalation

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Skin contact

: Muclease-Free Water No specific data. No specific data. T7 Primer No specific data. 5X First Strand Buffer 0.1 M DTT No specific data. 10 mM dNTP Mix No specific data. AffinityScript RT RNase No specific data.

Block Mix

5X Transcription Buffer No specific data. NTP Mix No specific data. T7 RNA Polymerase Blend No specific data. WT Primer Mix No specific data.

: Nuclease-Free Water No specific data. T7 Primer No specific data.

5X First Strand Buffer No specific data. No specific data. 0.1 M DTT No specific data. 10 mM dNTP Mix AffinityScript RT RNase No specific data.

Block Mix

5X Transcription Buffer No specific data. NTP Mix No specific data. T7 RNA Polymerase Blend No specific data. WT Primer Mix No specific data.

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

Notes to physician

Ingestion

: Nuclease-Free Water Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

T7 Primer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

5X First Strand Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

0.1 M DTT Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Treat symptomatically. Contact poison treatment 10 mM dNTP Mix

specialist immediately if large quantities have been

ingested or inhaled.

AffinityScript RT RNase

Block Mix

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

ingested or inhaled.

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.

In case of inhalation of decomposition products in a NTP Mix

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

T7 RNA Polymerase Blend Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

WT Primer Mix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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Section 4. First aid measures

Specific treatments

Protection of first-aiders

: Nuclease-Free Water No specific treatment. No specific treatment. T7 Primer 5X First Strand Buffer No specific treatment. 0.1 M DTT No specific treatment. 10 mM dNTP Mix No specific treatment. AffinityScript RT RNase No specific treatment.

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

: Nuclease-Free Water

No action shall be taken involving any personal risk

or without suitable training.

T7 Primer No action shall be taken involving any personal risk

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

or without suitable training.

5X First Strand Buffer No action shall be taken involving any personal risk

or without suitable training.

0.1 M DTT No action shall be taken involving any personal risk

or without suitable training.

10 mM dNTP Mix No action shall be taken involving any personal risk

or without suitable training.

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

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.

NTP Mix No action shall be taken involving any personal risk

or without suitable training.

T7 RNA Polymerase Blend No action shall be taken involving any personal risk

or without suitable training.

WT Primer Mix 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

: Muclease-Free Water Use an extinguishing agent suitable for the

surrounding fire.

T7 Primer Use an extinguishing agent suitable for the

surrounding fire.

5X First Strand Buffer Use an extinguishing agent suitable for the

surrounding fire.

0.1 M DTT Use an extinguishing agent suitable for the

surrounding fire.

10 mM dNTP Mix Use an extinguishing agent suitable for the

surrounding fire.

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

NTP Mix Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the T7 RNA Polymerase Blend

surrounding fire.

WT Primer Mix Use an extinguishing agent suitable for the

surrounding fire.

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Section 5. Firefighting measures

Unsuitable	extinguishing
media	

: Nuclease-Free Water None known. T7 Primer None known. 5X First Strand Buffer None known. 0.1 M DTT None known. 10 mM dNTP Mix None known. AffinityScript RT RNase None known. Block Mix

5X Transcription Buffer None known. NTP Mix None known. T7 RNA Polymerase Blend None known.

WT Primer Mix None known.

Specific hazards arising from the chemical

Muclease-Free Water In a fire or if heated, a pressure increase will occur

and the container may burst.

T7 Primer In a fire or if heated, a pressure increase will occur

and the container may burst.

5X First Strand Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

0.1 M DTT In a fire or if heated, a pressure increase will occur

and the container may burst.

10 mM dNTP Mix In a fire or if heated, a pressure increase will occur

and the container may burst.

AffinityScript RT RNase

Block Mix

NTP Mix

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 5X Transcription Buffer and the container may burst.

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

and the container may burst.

T7 RNA Polymerase Blend In a fire or if heated, a pressure increase will occur

and the container may burst.

WT Primer Mix In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

: Nuclease-Free Water

T7 Primer

No specific data. 5X First Strand Buffer

Decomposition products may include the following

materials: carbon dioxide carbon monoxide

No specific data.

halogenated compounds metal oxide/oxides

0.1 M DTT No specific data. 10 mM dNTP Mix No specific data.

AffinityScript RT RNase Decomposition products may include the following Block Mix materials:

> carbon dioxide carbon monoxide

5X Transcription Buffer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

NTP Mix Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides

T7 RNA Polymerase Blend Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

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Section 5. Firefighting measures

9		
	WT Primer Mix	No specific data.
Special protective actions for fire-fighters	: Muclease-Free Water	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.
	T7 Primer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	5X First Strand 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.
	0.1 M DTT	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.
	10 mM dNTP Mix	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.
	AffinityScript RT RNase Block Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	5X Transcription Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	NTP Mix	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.
	T7 RNA Polymerase Blend	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.
	WT Primer Mix	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	: Muclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	T7 Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	5X First Strand Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.1 M DTT	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10 mM dNTP Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	AffinityScript RT RNase	Fire-fighters should wear appropriate protective

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Section 5. Firefighting measures

Block Mix equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

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.

NTP Mix Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

T7 RNA Polymerase Blend Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

WT Primer Mix Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Muclease-Free Water

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.

T7 Primer No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

5X First Strand 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.

0.1 M DTT 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.

10 mM dNTP Mix 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.

AffinityScript RT RNase

Block Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

5X Transcription Buffer No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

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Section 6. Accidental release measures

through spilt material. Put on appropriate personal

protective equipment.

NTP Mix 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.

No action shall be taken involving any personal risk T7 RNA Polymerase Blend

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.

No action shall be taken involving any personal risk WT Primer Mix 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 : Muclease-Free Water 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". 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". 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". 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". 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". 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". 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". 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". 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". 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".

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

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Section 6. Accidental release measures

Environmental precautions: Muclease-Free Water 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).

T7 Primer Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

5X First Strand 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).

0.1 M DTT 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).

10 mM dNTP Mix 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).

AffinityScript RT RNase

Block Mix

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

soil or air).

5X Transcription Buffer Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

NTP Mix 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).

T7 RNA Polymerase Blend 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).

WT Primer Mix

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

Methods for cleaning up : Muclease-Free Water

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.

T7 Primer 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

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Section 6. Accidental release measures

disposal contractor.

5X First Strand 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.

0.1 M DTT 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.

10 mM dNTP Mix 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.

AffinityScript RT RNase

Block Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

5X Transcription Buffer Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

NTP Mix 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.

T7 RNA Polymerase Blend 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.

WT Primer Mix 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

Protective measures

Muclease-Free Water Put on appropriate personal protective equipment

(see Section 8).

T7 Primer Put on appropriate personal protective equipment

(see Section 8).

5X First Strand Buffer Put on appropriate personal protective equipment

(see Section 8).

0.1 M DTT Put on appropriate personal protective equipment

(see Section 8).

10 mM dNTP Mix Put on appropriate personal protective equipment

(see Section 8).

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AffinityScript RT RNase

Block Mix

5X Transcription Buffer

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

NTP Mix Put on appropriate personal protective equipment

(see Section 8).

T7 RNA Polymerase Blend

Put on appropriate personal protective equipment

(see Section 8).

WT Primer Mix

Put on appropriate personal protective equipment

(see Section 8).

Advice on general occupational hygiene : Nuclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

NTP Mix

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.

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

additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

before entering eating areas. See also Section 8 for

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.

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

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T7 RNA Polymerase Blend

WT Primer Mix

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.

Store in accordance with local regulations. Store in

Conditions for safe storage, : Muclease-Free Water including any incompatibilities

T7 Primer

5X First Strand Buffer

0.1 M DTT

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. 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. 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. 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. Store in accordance with local regulations. Store in

10 mM dNTP Mix

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AffinityScript RT RNase Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

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. 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. 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. 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. 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. 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

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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			
AffinityScript RT RNase Block Mix Glycerol	Safe Work Australia (Australia, 12/2019).			
diyector	TWA: 10 mg/m ³ 8 hours.			
5X Transcription Buffer				
Polyethylene glycol	DFG MAC-values list (Germany, 8/2020). PEAK: 400 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m³ 8 hours. Form: inhalable fraction			
T7 RNA Polymerase Blend Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours.			

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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

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.

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.

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

Αp	pe	ara	nce

Physical state : Nuclease-Free Water Liquid. Liquid. T7 Primer 5X First Strand Buffer Liquid. Liquid. 0.1 M DTT 10 mM dNTP Mix Liquid. AffinityScript RT RNase Liquid. Block Mix 5X Transcription Buffer Liquid. NTP Mix Liquid. T7 RNA Polymerase Blend Liquid. WT Primer Mix Liquid. Colour : Nuclease-Free Water Colourless. T7 Primer Not available. 5X First Strand Buffer Not available. Not available. 0.1 M DTT 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. **Block Mix** 5X Transcription Buffer Not available. NTP Mix Not available. T7 RNA Polymerase Blend Not available. WT Primer Mix Not available. Muclease-Free Water **Odour** Odourless. T7 Primer Not available. 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. Block Mix 5X Transcription Buffer Not available. NTP Mix Not available. T7 RNA Polymerase Blend Not available. WT Primer Mix Not available. **Odour threshold** : Nuclease-Free Water Not available. T7 Primer Not available. 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. Block Mix 5X Transcription Buffer Not available. NTP Mix Not available. T7 RNA Polymerase Blend Not available. WT Primer Mix Not available. : Nuclease-Free Water pН Not available. T7 Primer 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. Block Mix 5X Transcription Buffer Not available. NTP Mix Not available. T7 RNA Polymerase Blend Not available. WT Primer Mix 7.5 to 8

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Melting point/freezing point

 Muclease-Free Water
 0°C (32°F)

 T7 Primer
 0°C (32°F)

 5X First Strand Buffer
 Not available.

 0.1 M DTT
 0°C (32°F)

 10 mM dNTP Mix
 0°C (32°F)

 AffinityScript RT RNase
 Not available.

Block Mix

5X Transcription Buffer
NTP Mix
0°C (32°F)
T7 RNA Polymerase Blend
WT Primer Mix
0°C (32°F)

100°C (313°F)

Boiling point, initial boiling point, and boiling range

: Muclease-Free Water 100°C (212°F) T7 Primer 100°C (212°F) 5X First Strand Buffer Not available.

0.1 M DTT 100°C (212°F) 10 mM dNTP Mix 100°C (212°F) AffinityScript RT RNase Not available.

Block Mix

5X Transcription Buffer Not available.

NTP Mix 100°C (212°F)

T7 RNA Polymerase Blend Not available.

WT Primer Mix 100°C (212°F)

Flash point

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
77 Primer						
Edetic acid	>100	>212	DIN 51758			
5X First Strand Buffer						
Polyoxyethylene octyl phenyl ether	>109.85	>229.7				
0.1 M DTT						
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				
AffinityScript RT RNase Block Mix						
Edetic acid	>100	>212	DIN 51758			
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl) phenyl]omega hydroxy-	>109.85	>229.7				
5X Transcription Buffer						
Polyethylene glycol	171 to 235	339.8 to 455		199 to 238	390.2 to 460.4	
T7 RNA Polymerase Blend						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

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Characteristics				
Evaporation rate	:	Muclease-Free Water T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase Block Mix 5X Transcription Buffer NTP Mix T7 RNA Polymerase Blend WT Primer Mix	Not available.	
Flammability	ammability :		Not applicable.	
Lower and upper explosion limit/flammability limit	:	Muclease-Free Water T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase Block Mix 5X Transcription Buffer NTP Mix T7 RNA Polymerase Blend WT Primer Mix	Not available.	
T7 Primer 5X First St 0.1 M DTT 10 mM dN AffinityScri Block Mix 5X Transc NTP Mix T7 RNA P		5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase Block Mix 5X Transcription Buffer NTP Mix T7 RNA Polymerase Blend WT Primer Mix	3.2 kPa (23.8 mm Hg) 12.3 kPa (92.258 mm Not available.	Hg) [50°C (122°F)]
		Vanc	our Pressure at 20°C	Vanour pressure

	Vapou	r Pressu	re at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
77 Primer							
water	23.8	3.2		92.258	12.3		
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001		
5X First Strand Buffer							
water	23.8	3.2		92.258	12.3		
Polyoxyethylene octyl	<1	<0.13					

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phenyl ether						
0.1 M DTT						
water	23.8	3.2		92.258	12.3	
10 mM dNTP Mix						
TO ITIM CINTE WILK						
water	23.8	3.2		92.258	12.3	
AffinityScript RT RNase Block Mix						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
5X Transcription Buffer						
water	23.8	3.2		92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
NTP Mix						
water	23.8	3.2		92.258	12.3	
Adenosine 5'- (tetrahydrogen triphosphate), disodium salt	<0.00075006	<0.0001		<0.00075006	<0.0001	
T7 RNA Polymerase Blend						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
WT Primer Mix						
water	23.8	3.2		92.258	12.3	
Muclease-Free Wate	r	0 62 [Air	= 11			

Relative vapour density

: Nuclease-Free Water 0.62 [Air = 1]T7 Primer Not available. 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. **Block Mix** Not available. 5X Transcription Buffer NTP Mix Not available. T7 RNA Polymerase Blend Not available.

Relative density

WT Primer Mix Not available. : Nuclease-Free Water T7 Primer Not available. 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. **Block Mix** 5X Transcription Buffer Not available. NTP Mix Not available. T7 RNA Polymerase Blend Not available. WT Primer Mix Not available.

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characteristics					
Solubility	: Nuclease-Free Water	•		ng materials: cold water	
	T7 Primer	and hot water. Easily soluble in the following materials: cold water			
		and hot water	r .		
	5X First Strand Buffer	Soluble in the water.	following ma	terials: cold water and hot	
	0.1 M DTT	Easily soluble in the following materials: cold water			
	10 mM dNTD Mix	and hot water	•	na matariala, aald water	
	10 mM dNTP Mix	and hot water		ng materials: cold water	
	AffinityScript RT RNase				
	Block Mix 5X Transcription Buffer	water. Fasily soluble	in the followi	ng materials: cold water	
	ox transcription baner	and hot water		ng materials. Sold water	
	NTP Mix	Easily soluble in the following materials: cold water			
	T7 RNA Polymerase Blend	and hot water Soluble in the		terials: cold water and hot	
	MT Discontinu	water.			
	WT Primer Mix	and hot water		ng materials: cold water	
Partition coefficient: n-	: Muclease-Free Water	-1.38			
octanol/water	T7 Primer	Not applicable.			
	5X First Strand Buffer 0.1 M DTT	Not applicable. Not applicable.			
	10 mM dNTP Mix	Not applicable. Not applicable.			
	AffinityScript RT RNase Block Mix	Not applicable			
	5X Transcription Buffer	Not applicable.			
	NTP Mix T7 RNA Polymerase Blend	Not applicable Not applicable			
	WT Primer Mix	Not applicable			
Auto-ignition temperature	: Ingredient name	°C	°F	Method	
	77 Primer				
	Edetic acid	>400	>752	VDI 2263	
	AffinityScript RT RNase Block Mi	x			
	Glycerol	370	698		
	4-(2-Hydroxyethyl)piperazin-	>400	>752	EU A.16	
	1-ylethanesulphonic acid				
	5X Transcription Buffer				
	Polyethylene glycol	360	680		
	T7 RNA Polymerase Blend				
	Glycerol	370	698		
	4-(2-Hydroxyethyl)piperazin- 1-ylethanesulphonic acid	>400	>752	EU A.16	
Decomposition temperature	: Nuclease-Free Water	Not available.			
	T7 Primer	Not available.			
	5X First Strand Buffer 0.1 M DTT	Not available. Not available.			
	10 mM dNTP Mix	Not available.			
	AffinityScript RT RNase	Not available.			
	Block Mix	Not available			
	5X Transcription Buffer	Not available.	•		

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Not available.

NTP Mix

Viscosity

T7 RNA Polymerase Blend Not available. WT Primer Mix Not available. Muclease-Free Water Not available. T7 Primer Not available. 5X First Strand Buffer Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. AffinityScript RT RNase Not available. Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

Not available. Not available. Not available.

Not available.

Particle characteristics
Median particle size

Muclease-Free Water
T7 Primer
Not applicable.
5X First Strand Buffer
0.1 M DTT
Not applicable.
10 mM dNTP Mix
AffinityScript RT RNase
Not applicable.
Not applicable.

Block Mix

5X Transcription Buffer NTP Mix

T7 RNA Polymerase Blend WT Primer Mix

Not applicable. Not applicable. Not applicable.

Not applicable.

Section 10. Stability and reactivity

Reactivity

Muclease-Free Water No specific test data related to reactivity available for

this product or its ingredients.

T7 Primer No specific test data related to reactivity available for

this product or its ingredients.

5X First Strand Buffer No specific test data related to reactivity available for

this product or its ingredients.

0.1 M DTT No specific test data related to reactivity available for

this product or its ingredients.

10 mM dNTP Mix No specific test data related to reactivity available for

this product or its ingredients.

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

No specific test data related to reactivity available for

this product or its ingredients.

ffer No specific test data related to reactivity available for

this product or its ingredients.

NTP Mix No specific test data related to reactivity available for

this product or its ingredients.

T7 RNA Polymerase Blend No specific test data related to reactivity available for

this product or its ingredients.

WT Primer Mix

No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability

: Muclease-Free Water

T7 Primer 5X First Strand Buffer 0.1 M DTT

10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend WT Primer Mix The product is stable. The product is stable.

The product is stable. The product is stable. The product is stable. The product is stable.

The product is stable. The product is stable. The product is stable. The product is stable.

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Section 10. Stability and reactivity

Possibility of hazardous reactions

: Muclease-Free Water Under normal conditions of storage and use, hazardous reactions will not occur.

T7 Primer Under normal conditions of storage and use,

hazardous reactions will not occur.

5X First Strand Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

0.1 M DTT Under normal conditions of storage and use,

hazardous reactions will not occur.

10 mM dNTP Mix Under normal conditions of storage and use,

hazardous reactions will not occur.

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

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

Under normal conditions of storage and use,

hazardous reactions will not occur.

NTP Mix Under normal conditions of storage and use,

hazardous reactions will not occur.

T7 RNA Polymerase Blend Under normal conditions of storage and use,

hazardous reactions will not occur.

WT Primer Mix Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid

: Muclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data. No specific data.

No specific data. No specific data.

Incompatible materials

: Muclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

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

May react or be incompatible with oxidising materials. 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

: Muclease-Free Water

Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

T7 Primer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

5X First Strand Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

0.1 M DTT Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

10 mM dNTP Mix Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

AffinityScript RT RNase Under normal conditions of storage and use,

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Section 10. Stability and reactivity

Block Mix hazardous decomposition products should not be

produced.

5X Transcription Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced

NTP Mix Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

T7 RNA Polymerase Blend Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

WT Primer Mix 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
AffinityScript RT RNase Block Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T7 RNA Polymerase Blend Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AffinityScript RT RNase Block Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
5X Transcription Buffer					
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
T7 RNA Polymerase Blend					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

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Section 11. Toxicological information

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

: Nuclease-Free Water T7 Primer 5X First Strand Buffer

Not available. 0.1 M DTT Not available. 10 mM dNTP Mix Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Not available.

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend WT Primer Mix

Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Not available.

Potential acute health effects

Eye contact

Inhalation

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Nuclease-Free Water T7 Primer

5X First Strand Buffer

0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

: Nuclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

: Nuclease-Free Water Skin contact

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

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T7 RNA Polymerase Blend

WT Primer Mix

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

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

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Section 11. Toxicological information

	es		

Inhalation

: Nuclease-Free Water No known significant effects or critical hazards. T7 Primer No known significant effects or critical hazards. 5X First Strand Buffer No known significant effects or critical hazards. 0.1 M DTT No known significant effects or critical hazards. 10 mM dNTP Mix No known significant effects or critical hazards. AffinityScript RT RNase No known significant effects or critical hazards. Block Mix 5X Transcription Buffer No known significant effects or critical hazards. NTP Mix No known significant effects or critical hazards. T7 RNA Polymerase Blend No known significant effects or critical hazards.

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

WT Primer Mix

<u>symptoms related to t</u>	<u>ile pilysical, chemical and toxicolo</u>	<u>ilcai ciiaracteristics</u>
Eye contact	: Muclease-Free Water	No specific data.
	T7 Primer	No specific data.
	5X First Strand Buffer	No specific data.
	0.1 M DTT	No specific data.
	10 mM dNTP Mix	No specific data.
	AffinityScript RT RNase	No specific data.
	Block Mix	
	5X Transcription Buffer	No specific data.
	NTP Mix	No specific data.

NTP Mix
T7 RNA Polymerase Blend
WT Primer Mix
No specific data.

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix
AffinityScript RT RNase
Block Mix

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

5X Transcription Buffer
NTP Mix
No specific data.

Skin contact

: Muclease-Free Water
T7 Primer
No specific data.
5X First Strand Buffer
No specific data.
0.1 M DTT
No specific data.
10 mM dNTP Mix
No specific data.

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

No specific data.

No specific data.

5X Transcription Buffer
NTP Mix
No specific data.
T7 RNA Polymerase Blend
WT Primer Mix
No specific data.

Ingestion : Muclease-Free Water No specific data.

T7 Primer No specific data.

5X First Strand Buffer No specific data.

0.1 M DTT No specific data.

0.1 M DTT
No specific data.
10 mM dNTP Mix
No specific data.
AffinityScript RT RNase
Block Mix
No specific data.

5X Transcription Buffer No specific data.

NTP Mix No specific data.

T7 RNA Polymerase Blend WT Primer Mix No specific data.

No specific data.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Short term exposure</u>

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Section 11. Toxicological information

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

: Nuclease-Free Water **General**

T7 Primer

5X First Strand Buffer

0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

Carcinogenicity : Muclease-Free Water

T7 Primer

5X First Strand Buffer

0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

: Nuclease-Free Water Mutagenicity

T7 Primer

5X First Strand Buffer

0.1 M DTT 10 mM dNTP Mix AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

Muclease-Free Water Reproductive toxicity

T7 Primer

5X First Strand Buffer

0.1 M DTT

10 mM dNTP Mix

AffinityScript RT RNase

Block Mix

5X Transcription Buffer

NTP Mix

T7 RNA Polymerase Blend

WT Primer Mix

No known significant effects or critical hazards.

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

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No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AffinityScript RT RNase Block Mix Glycerol	12600	N/A	N/A	N/A	N/A
5X Transcription Buffer Polyethylene glycol	28000	N/A	N/A	N/A	N/A
T7 RNA Polymerase Blend Glycerol	12600	N/A	N/A	N/A	N/A

Other information

: Muclease-Free Water
T7 Primer
SX First Strand Buffer
0.1 M DTT
Not available.
10 mM dNTP Mix
AffinityScript RT RNase
Not available.
Not available.
Not available.

Block Mix

5X Transcription Buffer Adverse symptoms may include the following: May

cause skin sensitisation.

NTP Mix

Not available.

T7 RNA Polymerase Blend

Adverse symptoms may include the following: May

cause skin sensitisation.

WT Primer Mix Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
AffinityScript RT RNase Block Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
5X Transcription Buffer Polyethylene glycol	Acute LC50 >1000000 μg/l Fresh water	Fish - Salmo salar - Parr	96 hours
T7 RNA Polymerase Blend Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AffinityScript RT RNase Block Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
5X Transcription Buffer Polyethylene glycol	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
T7 RNA Polymerase Blend				

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ow Input QuickAmp WT Labeling Kit - No Dye, Part Number 5190-2942							
Section 12. Ecolo	gical inform	nation					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-		
Product/ingredient name	Aquatic half-life		Photolysi	s	Biodegradability		
Nuclease-Free Water water	-		-		Readily		
5X Transcription Buffer Polyethylene glycol	_		_		Readily		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	low
AffinityScript RT RNase Block Mix Glycerol	-1.76	-	low
5X Transcription Buffer Polyethylene glycol	-	3.2	low
T7 RNA Polymerase Blend Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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 nonrecyclable 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. 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 Goods according to the ADG Code .

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

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Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe: All components are listed or exempted. **Japan**: **Japan inventory (CSCL)**: Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

United States : At least one component is inactive.

Viet Nam : Not determined.

Section 16. Any other relevant information

History

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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 = Intermediate 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

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Section 16. Any other relevant information

SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification

Not classified.

References

: Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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