

SAFETY DATA SHEET



Quick Amp Labeling Kit, Part Number 5190-0424

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

1.1 Product identifier

Product name	: Quick Amp Labeling Kit, Part Number 5190-0424	
Part no. (chemical kit)	: 5190-0424	
Part no.	Inorganic	5062-9581
	Pyrophosphatase	
	T7 RNA Polymerase	5062-9582
	PEG	5062-9583
	T7 Primer	5062-9572
	5X First Strand Buffer	5062-9573
	0.1 M DTT	5062-9574
	10 mM dNTP Mix	5062-9575
	RNase Inhibitor	5062-9576
	MMLV-RT	5062-9577
	4X Transcription Buffer	5062-9578
	NTP Mix	5062-9579

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

Identified uses	: Analytical reagent. For research use only.	
	Inorganic Pyrophosphatase	0.015 ml
	T7 RNA Polymerase	0.02 ml
	PEG	0.14 ml
	T7 Primer	0.03 ml
	5X First Strand Buffer	0.195 ml
	0.1 M DTT	0.23 ml
	10 mM dNTP Mix	0.025 ml
	RNase Inhibitor	0.025 ml
	MMLV-RT	300 U/ μ l 25 μ l
	4X Transcription Buffer	0.43 ml
	NTP Mix	0.175 ml
Uses advised against	: Not for use in diagnostic procedures (RUO).	

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

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

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Inorganic Pyrophosphatase	Mixture
		T7 RNA Polymerase	Mixture
		PEG	Mixture
		T7 Primer	Mixture
		5X First Strand Buffer	Mixture
		0.1 M DTT	Mixture
		10 mM dNTP Mix	Mixture
		RNase Inhibitor	Mixture
		MMLV-RT	Mixture
		4X Transcription Buffer	Mixture
		NTP Mix	Mixture

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

5X First Strand Buffer

H412	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 3
Inorganic Pyrophosphatase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
T7 RNA Polymerase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
PEG	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
T7 Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
5X First Strand Buffer	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
0.1 M DTT	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
10 mM dNTP Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
RNase Inhibitor	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
MMLV-RT	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
4X Transcription Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
NTP Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	

Ingredients of unknown toxicity	:	Inorganic Pyrophosphatase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		T7 RNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		PEG	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		5X First Strand Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%
		0.1 M DTT	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		RNase Inhibitor	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		MMLV-RT	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		4X Transcription Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		NTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity	: 5X First Strand Buffer 4X Transcription Buffer NTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% Contains 59% of components with unknown hazards to the aquatic environment Contains 2.4% of components with unknown hazards to the aquatic environment Contains 4% of components with unknown hazards to the aquatic environment
---	--	---

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

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

2.2 Label elements

Signal word	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.
Hazard statements	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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. H412 - Harmful to aquatic life with long lasting effects. 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.

Precautionary statements

Prevention	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	Not applicable. Not applicable. Not applicable. Not applicable. P273 - Avoid release to the environment. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 2: Hazards identification

	NTP Mix	Not applicable.
Storage	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
	NTP Mix	Not applicable.
Disposal	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
	NTP Mix	Not applicable.
Supplemental label elements	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Safety data sheet available on request.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
	NTP Mix	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
	NTP Mix	Not applicable.
Special packaging requirements		
Tactile warning of danger	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 2: Hazards identification

4X Transcription Buffer Not applicable.
NTP Mix Not applicable.

2.3 Other hazards

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

: Inorganic Pyrophosphatase T7 RNA Polymerase
PEG
T7 Primer
5X First Strand Buffer
0.1 M DTT
10 mM dNTP Mix
RNase Inhibitor
MMLV-RT
4X Transcription Buffer
NTP Mix

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.
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.
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.
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

: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix

None known.
None known.
None known.
None known.
Contains one or more substances considered to have endocrine-disrupting properties.
None known.
None known.
None known.
Contains one or more substances considered to have endocrine-disrupting properties.
None known.
None known.

Substances identified as having endocrine disruptor properties

Ingredient name	Impact
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	Environment
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Environment

SECTION 3: Composition/information on ingredients

3.1 Substances

: Inorganic Pyrophosphatase Mixture
T7 RNA Polymerase Mixture
PEG Mixture
T7 Primer Mixture
5X First Strand Buffer Mixture
0.1 M DTT Mixture
10 mM dNTP Mix Mixture
RNase Inhibitor Mixture
MMLV-RT Mixture
4X Transcription Buffer Mixture
NTP Mix Mixture

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Inorganic Pyrophosphatase					
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
T7 RNA Polymerase					
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
5X First Strand Buffer					
Magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	≤0.3	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	≤0.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1800 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [2]
0.1 M DTT					
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	EC: 222-468-7 CAS: 3483-12-3	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
RNase Inhibitor					
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
MMLV-RT					
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[2]
Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	<0.25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [3]

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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 3: Composition/information on ingredients

Type	
Inorganic Pyrophosphatase	[1] Substance with a workplace exposure limit
T7 RNA Polymerase	[1] Substance with a workplace exposure limit
5X First Strand Buffer	[1] Substance classified with a health or environmental hazard [2] Substance of equivalent concern
0.1 M DTT	[1] Substance classified with a health or environmental hazard
RNase Inhibitor	[1] Substance with a workplace exposure limit
MMLV-RT	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit [3] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Inorganic Pyrophosphatase	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	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.	
	PEG	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.	
	RNase Inhibitor	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.	
	MMLV-RT	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.	
	4X 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.	
	Inhalation	: Inorganic Pyrophosphatase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		T7 RNA Polymerase	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.
PEG		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	

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 4: First aid measures

		symptoms occur.
	5X First Strand Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	0.1 M DTT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10 mM dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RNase Inhibitor	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.
	MMLV-RT	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.
	4X 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.
Skin contact	: Inorganic Pyrophosphatase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T7 RNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PEG	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.
	RNase Inhibitor	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	MMLV-RT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	4X Transcription Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 4: First aid measures

	NTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Inorganic Pyrophosphatase	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.
	T7 RNA Polymerase	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	PEG	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.
	T7 Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	5X First Strand Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
	0.1 M DTT	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.
	10 mM dNTP Mix	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.
	RNase Inhibitor	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.
	MMLV-RT	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.
	4X Transcription Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	NTP Mix	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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 4: First aid measures

Protection of first-aiders	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	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. 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. 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. 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. 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. 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.
-----------------------------------	--	--

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
Inhalation	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
Skin contact	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 4: First aid measures

Ingestion	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
------------------	--	---

Over-exposure signs/symptoms

Eye contact	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
--------------------	--	--

Inhalation	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
-------------------	--	--

Skin contact	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
---------------------	--	--

Ingestion	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
------------------	--	--

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Inorganic Pyrophosphatase T7 RNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
	PEG	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.
	10 mM dNTP Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNase Inhibitor	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.
	MMLV-RT	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.
	4X 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.
	NTP Mix	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.
Specific treatments	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
-------------------------------------	---	---

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 5: Firefighting measures

Unsuitable extinguishing media	: Inorganic	None known.
	Pyrophosphatase	
	T7 RNA Polymerase	None known.
	PEG	None known.
	T7 Primer	None known.
	5X First Strand Buffer	None known.
	0.1 M DTT	None known.
	10 mM dNTP Mix	None known.
	RNase Inhibitor	None known.
	MMLV-RT	None known.
	4X Transcription Buffer	None known.
NTP Mix	None known.	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Inorganic	In a fire or if heated, a pressure increase will occur and the container may burst.
	Pyrophosphatase	
	T7 RNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	PEG	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. 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.
	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.
	RNase Inhibitor	In a fire or if heated, a pressure increase will occur and the container may burst.
	MMLV-RT	In a fire or if heated, a pressure increase will occur and the container may burst.
	4X Transcription Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
NTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous combustion products	: Inorganic	Decomposition products may include the following materials:
	Pyrophosphatase	carbon dioxide carbon monoxide
	T7 RNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	PEG	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	T7 Primer	No specific data.
	5X First Strand Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
0.1 M DTT	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides	

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 5: Firefighting measures

10 mM dNTP Mix RNase Inhibitor	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
MMLV-RT	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
4X Transcription Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
NTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: Inorganic Pyrophosphatase	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	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.
PEG	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.
RNase Inhibitor	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.
MMLV-RT	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.
4X 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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

Inorganic Pyrophosphatase	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.
T7 RNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
PEG	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.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
5X 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. 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.
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. 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.
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. 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.
RNase Inhibitor	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.
MMLV-RT	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.
4X 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.
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. Clothing for

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 5: Firefighting measures

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	:	Inorganic Pyrophosphatase	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 RNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		PEG	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.
		RNase Inhibitor	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.
		MMLV-RT	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.
		4X 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. 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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 6: Accidental release measures

For emergency responders

: Inorganic Pyrophosphatase	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 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".
PEG	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	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
5X First Strand 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".
0.1 M DTT	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".
10 mM dNTP Mix	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".
RNase Inhibitor	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".
MMLV-RT	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".
4X Transcription Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
NTP Mix	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

: Inorganic Pyrophosphatase	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	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).
PEG	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

SECTION 6: Accidental release measures

	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.
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).
RNase Inhibitor	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).
MMLV-RT	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).
4X 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Inorganic Pyrophosphatase	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	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.
	PEG	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 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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.
	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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 6: Accidental release measures

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.
RNase Inhibitor	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.
MMLV-RT	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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.
4X 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.

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	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). 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. Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
----------------------------	---	--

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 7: Handling and storage

Advice on general occupational hygiene

Inorganic Pyrophosphatase	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.
T7 RNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
PEG	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.
T7 Primer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X First Strand 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.
0.1 M DTT	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.
10 mM dNTP Mix	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.
RNase Inhibitor	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.
MMLV-RT	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.
4X 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.
NTP Mix	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,

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 7: Handling and storage

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

: Inorganic
Pyrophosphatase

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.

T7 RNA Polymerase

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

PEG

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.

T7 Primer

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

5X First Strand 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.

0.1 M DTT

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

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 7: Handling and storage

10 mM dNTP Mix	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.
RNase Inhibitor	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.
MMLV-RT	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.
4X 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.
NTP Mix	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

: Inorganic Pyrophosphatase	Industrial applications, Professional applications.
T7 RNA Polymerase	Industrial applications, Professional applications.
PEG	Industrial applications, Professional applications.
T7 Primer	Industrial applications, Professional applications.
5X First Strand Buffer	Industrial applications, Professional applications.
0.1 M DTT	Industrial applications, Professional applications.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 7: Handling and storage

	10 mM dNTP Mix	Industrial applications, Professional applications.
	RNase Inhibitor	Industrial applications, Professional applications.
	MMLV-RT	Industrial applications, Professional applications.
	4X Transcription Buffer	Industrial applications, Professional applications.
	NTP Mix	Industrial applications, Professional applications.
Industrial sector specific solutions	Inorganic	Not available.
	Pyrophosphatase	
	T7 RNA Polymerase	Not available.
	PEG	Not available.
	T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	10 mM dNTP Mix	Not available.
	RNase Inhibitor	Not available.
	MMLV-RT	Not available.
	4X Transcription Buffer	Not available.
	NTP Mix	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Inorganic Pyrophosphatase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist
T7 RNA Polymerase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist
RNase Inhibitor Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist
MMLV-RT Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist

Biological exposure indices

None known.

Recommended monitoring procedures

: 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 First Strand Buffer Magnesium chloride	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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	: Inorganic	Liquid.
	Pyrophosphatase	
	T7 RNA Polymerase	Liquid.
	PEG	Liquid.
	T7 Primer	Liquid.
	5X First Strand Buffer	Liquid.
	0.1 M DTT	Liquid.
	10 mM dNTP Mix	Liquid.
	RNase Inhibitor	Liquid.
	MMLV-RT	Liquid.
	4X Transcription Buffer	Liquid.
	NTP Mix	Liquid.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

Colour	:	Inorganic	Not available.
		Pyrophosphatase	
		T7 RNA Polymerase	Not available.
		PEG	Not available.
		T7 Primer	Not available.
		5X First Strand Buffer	Not available.
		0.1 M DTT	Not available.
		10 mM dNTP Mix	Not available.
		RNase Inhibitor	Not available.
		MMLV-RT	Clear.
		4X Transcription Buffer	Not available.
		NTP Mix	Not available.
	Odour	:	Inorganic
		Pyrophosphatase	
		T7 RNA Polymerase	Not available.
		PEG	Not available.
		T7 Primer	Not available.
		5X First Strand Buffer	Not available.
		0.1 M DTT	Not available.
		10 mM dNTP Mix	Not available.
		RNase Inhibitor	Not available.
		MMLV-RT	Not available.
		4X Transcription Buffer	Not available.
		NTP Mix	Not available.
Odour threshold		:	Inorganic
		Pyrophosphatase	
		T7 RNA Polymerase	Not available.
		PEG	Not available.
		T7 Primer	Not available.
		5X First Strand Buffer	Not available.
		0.1 M DTT	Not available.
		10 mM dNTP Mix	Not available.
		RNase Inhibitor	Not available.
		MMLV-RT	Not available.
		4X Transcription Buffer	Not available.
		NTP Mix	Not available.
	Melting point/freezing point	:	Inorganic
		Pyrophosphatase	
		T7 RNA Polymerase	Not available.
		PEG	Not available.
		T7 Primer	0°C
		5X First Strand Buffer	Not available.
		0.1 M DTT	0°C
		10 mM dNTP Mix	0°C
		RNase Inhibitor	Not available.
		MMLV-RT	17.8°C
		4X Transcription Buffer	0°C
		NTP Mix	0°C
Initial boiling point and boiling range		:	Inorganic
		Pyrophosphatase	
		T7 RNA Polymerase	Not available.
		PEG	Not available.
		T7 Primer	100°C
		5X First Strand Buffer	Not available.
		0.1 M DTT	100°C
		10 mM dNTP Mix	100°C
		RNase Inhibitor	Not available.
		MMLV-RT	289.7°C
		4X Transcription Buffer	100°C
		NTP Mix	100°C

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

Flammability : Inorganic Pyrophosphatase Not applicable.
 T7 RNA Polymerase Not applicable.
 PEG Not applicable.
 T7 Primer Not applicable.
 5X First Strand Buffer Not applicable.
 0.1 M DTT Not applicable.
 10 mM dNTP Mix Not applicable.
 RNase Inhibitor Not applicable.
 MMLV-RT Not applicable.
 4X Transcription Buffer Not applicable.
 NTP Mix Not applicable.

Upper/lower flammability or explosive limits : Inorganic Pyrophosphatase Not available.
 T7 RNA Polymerase Not available.
 PEG Not available.
 T7 Primer Not available.
 5X First Strand Buffer Not available.
 0.1 M DTT Not available.
 10 mM dNTP Mix Not available.
 RNase Inhibitor Not available.
 MMLV-RT Not available.
 4X Transcription Buffer Not available.
 NTP Mix Not available.

Flash point	Ingredient name	Closed cup		Open cup	
		°C	Method	°C	Method
	Inorganic Pyrophosphatase				
	Glycerol			177	
	T7 RNA Polymerase				
	Glycerol			177	
	PEG				
	Polyethylene glycol	171 to 235		199 to 238	
	0.1 M DTT				
	(R*,R*)-1,4-Dimercaptobutane-2,3-diol	>110			
	RNase Inhibitor				
	Glycerol			177	
	MMLV-RT				
	Glycerol			177	

Auto-ignition temperature :

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
Inorganic Pyrophosphatase		
Glycerol	370	
T7 RNA Polymerase		
Glycerol	370	
PEG		
Polyethylene glycol	360	
RNase Inhibitor		
Glycerol	370	
MMLV-RT		
Glycerol	370	

Decomposition temperature : Inorganic Pyrophosphatase Not available.

T7 RNA Polymerase Not available.
 PEG Not available.
 T7 Primer Not available.
 5X First Strand Buffer Not available.
 0.1 M DTT Not available.
 10 mM dNTP Mix Not available.
 RNase Inhibitor Not available.
 MMLV-RT Not available.
 4X Transcription Buffer Not available.
 NTP Mix Not available.

pH : Inorganic Pyrophosphatase 7.5

T7 RNA Polymerase Not available.
 PEG Not available.
 T7 Primer Not available.
 5X First Strand Buffer 8.3
 0.1 M DTT Not available.
 10 mM dNTP Mix Not available.
 RNase Inhibitor Not available.
 MMLV-RT Not available.
 4X Transcription Buffer 8
 NTP Mix Not available.

Viscosity : Inorganic Pyrophosphatase Not available.

T7 RNA Polymerase Not available.
 PEG Not available.
 T7 Primer Not available.
 5X First Strand Buffer Not available.
 0.1 M DTT Not available.
 10 mM dNTP Mix Not available.
 RNase Inhibitor Not available.
 MMLV-RT Not available.
 4X Transcription Buffer Not available.
 NTP Mix Not available.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

Solubility(ies)	Media	Result
	Inorganic Pyrophosphatase water	Soluble
	T7 RNA Polymerase water	Soluble
	PEG water	Soluble
	T7 Primer water	Soluble
	5X First Strand Buffer water	Soluble
	0.1 M DTT water	Soluble
	10 mM dNTP Mix water	Soluble
	RNase Inhibitor water	Soluble
	MMLV-RT water	Soluble
	4X Transcription Buffer water	Soluble
	NTP Mix water	Soluble

Partition coefficient: n-octanol/water	Media	Result
	Inorganic Pyrophosphatase	Not applicable.
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
	NTP Mix	Not applicable.

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	Inorganic Pyrophosphatase						
	water	23.8	3.2		92.258	12.3	
	Glycerol	0.000075	0.00001		0.0025	0.00033	
	T7 RNA Polymerase						
	water	23.8	3.2		92.258	12.3	
	Glycerol	0.000075	0.00001		0.0025	0.00033	
	PEG						
	water	23.8	3.2		92.258	12.3	
	Polyethylene glycol	0	0				

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

T7 Primer						
water	23.8	3.2		92.258	12.3	
5X First Strand Buffer						
water	23.8	3.2		92.258	12.3	
0.1 M DTT						
water	23.8	3.2		92.258	12.3	
10 mM dNTP Mix						
water	23.8	3.2		92.258	12.3	
RNase Inhibitor						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
MMLV-RT						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
4X 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	

Evaporation rate : Inorganic Pyrophosphatase Not available.
T7 RNA Polymerase Not available.
PEG Not available.
T7 Primer Not available.
5X First Strand Buffer Not available.
0.1 M DTT Not available.
10 mM dNTP Mix Not available.
RNase Inhibitor Not available.
MMLV-RT Not available.
4X Transcription Buffer Not available.
NTP Mix Not available.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

Relative density	: Inorganic	Not available.
	Pyrophosphatase	
	T7 RNA Polymerase	Not available.
	PEG	Not available.
	T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	10 mM dNTP Mix	Not available.
	RNase Inhibitor	Not available.
	MMLV-RT	Not available.
	4X Transcription Buffer	Not available.
NTP Mix	Not available.	
Vapour density	: Inorganic	Not available.
	Pyrophosphatase	
	T7 RNA Polymerase	Not available.
	PEG	Not available.
	T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	10 mM dNTP Mix	Not available.
	RNase Inhibitor	Not available.
	MMLV-RT	Not available.
	4X Transcription Buffer	Not available.
NTP Mix	Not available.	
Explosive properties	: Inorganic	Not available.
	Pyrophosphatase	
	T7 RNA Polymerase	Not available.
	PEG	Not available.
	T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	10 mM dNTP Mix	Not available.
	RNase Inhibitor	Not available.
	MMLV-RT	Not available.
	4X Transcription Buffer	Not available.
NTP Mix	Not available.	
Oxidising properties	: Inorganic	Not available.
	Pyrophosphatase	
	T7 RNA Polymerase	Not available.
	PEG	Not available.
	T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	10 mM dNTP Mix	Not available.
	RNase Inhibitor	Not available.
	MMLV-RT	Not available.
	4X Transcription Buffer	Not available.
NTP Mix	Not available.	
<u>Particle characteristics</u>		
Median particle size	: Inorganic	Not applicable.
	Pyrophosphatase	
	T7 RNA Polymerase	Not applicable.
	PEG	Not applicable.
	T7 Primer	Not applicable.
	5X First Strand Buffer	Not applicable.
	0.1 M DTT	Not applicable.
	10 mM dNTP Mix	Not applicable.
	RNase Inhibitor	Not applicable.
	MMLV-RT	Not applicable.
	4X Transcription Buffer	Not applicable.
NTP Mix	Not applicable.	

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	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. 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. 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. 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. 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. 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	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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. The product is stable.
10.3 Possibility of hazardous reactions	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 10: Stability and reactivity

reactions will not occur.

10.4 Conditions to avoid	:	Inorganic Pyrophosphatase	No specific data.
		T7 RNA Polymerase	No specific data.
		PEG	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.
		RNase Inhibitor	No specific data.
		MMLV-RT	No specific data.
		4X Transcription Buffer	No specific data.
		NTP Mix	No specific data.

10.5 Incompatible materials	:	Inorganic Pyrophosphatase	May react or be incompatible with oxidising materials.
		T7 RNA Polymerase	May react or be incompatible with oxidising materials.
		PEG	May react or be incompatible with oxidising materials.
		T7 Primer	May react or be incompatible with oxidising materials.
		5X First Strand Buffer	May react or be incompatible with oxidising materials.
		0.1 M DTT	May react or be incompatible with oxidising materials.
		10 mM dNTP Mix	May react or be incompatible with oxidising materials.
		RNase Inhibitor	May react or be incompatible with oxidising materials.
		MMLV-RT	May react or be incompatible with oxidising materials.
		4X Transcription Buffer	May react or be incompatible with oxidising materials.
		NTP Mix	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products	:	Inorganic Pyrophosphatase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		T7 RNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		PEG	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.
		RNase Inhibitor	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		MMLV-RT	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		4X 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
5X First Strand Buffer Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	2800 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	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)
5X First Strand Buffer Magnesium chloride	2800	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
0.1 M DTT 0.1 M DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	32467.5 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
0.1 M DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Inorganic	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Pyrophosphatase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
T7 RNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
PEG	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
T7 Primer	Not available.
5X First Strand Buffer	Not available.
0.1 M DTT	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
10 mM dNTP Mix	Not available.
RNase Inhibitor	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
MMLV-RT	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
4X Transcription Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
NTP Mix	Not available.

Potential acute health effects

Inhalation

Inorganic	No known significant effects or critical hazards.
Pyrophosphatase	No known significant effects or critical hazards.
T7 RNA Polymerase	No known significant effects or critical hazards.
PEG	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.
RNase Inhibitor	No known significant effects or critical hazards.
MMLV-RT	No known significant effects or critical hazards.
4X Transcription Buffer	No known significant effects or critical hazards.
NTP Mix	No known significant effects or critical hazards.

Ingestion

Inorganic	No known significant effects or critical hazards.
Pyrophosphatase	No known significant effects or critical hazards.
T7 RNA Polymerase	No known significant effects or critical hazards.
PEG	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.
RNase Inhibitor	No known significant effects or critical hazards.
MMLV-RT	No known significant effects or critical hazards.
4X Transcription Buffer	No known significant effects or critical hazards.
NTP Mix	No known significant effects or critical hazards.

Skin contact

Inorganic	No known significant effects or critical hazards.
Pyrophosphatase	No known significant effects or critical hazards.
T7 RNA Polymerase	No known significant effects or critical hazards.
PEG	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.
RNase Inhibitor	No known significant effects or critical hazards.
MMLV-RT	No known significant effects or critical hazards.
4X Transcription Buffer	No known significant effects or critical hazards.
NTP Mix	No known significant effects or critical hazards.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 11: Toxicological information

Eye contact	: Inorganic	No known significant effects or critical hazards.
	Pyrophosphatase	
	T7 RNA Polymerase	No known significant effects or critical hazards.
	PEG	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.
	RNase Inhibitor	No known significant effects or critical hazards.
	MMLV-RT	No known significant effects or critical hazards.
	4X Transcription Buffer	No known significant effects or critical hazards.
	NTP Mix	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Inorganic	No specific data.
	Pyrophosphatase	
	T7 RNA Polymerase	No specific data.
	PEG	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.
	RNase Inhibitor	No specific data.
	MMLV-RT	No specific data.
	4X Transcription Buffer	No specific data.
	NTP Mix	No specific data.

Ingestion	: Inorganic	No specific data.
	Pyrophosphatase	
	T7 RNA Polymerase	No specific data.
	PEG	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.
	RNase Inhibitor	No specific data.
	MMLV-RT	No specific data.
	4X Transcription Buffer	No specific data.
	NTP Mix	No specific data.

Skin contact	: Inorganic	No specific data.
	Pyrophosphatase	
	T7 RNA Polymerase	No specific data.
	PEG	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.
	RNase Inhibitor	No specific data.
	MMLV-RT	No specific data.
	4X Transcription Buffer	No specific data.
	NTP Mix	No specific data.

Eye contact	: Inorganic	No specific data.
	Pyrophosphatase	
	T7 RNA Polymerase	No specific data.
	PEG	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.
	RNase Inhibitor	No specific data.
	MMLV-RT	No specific data.
	4X Transcription Buffer	No specific data.
	NTP Mix	No specific data.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 11: Toxicological information

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	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
Carcinogenicity	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
Mutagenicity	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer NTP 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.
Reproductive toxicity	: Inorganic Pyrophosphatase T7 RNA Polymerase PEG T7 Primer 5X First Strand Buffer 0.1 M DTT 10 mM dNTP Mix RNase Inhibitor MMLV-RT 4X Transcription Buffer	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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 11: Toxicological information

NTP Mix

No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Inorganic Pyrophosphatase	Not available.
T7 RNA Polymerase	Adverse symptoms may include the following: May cause skin sensitisation.
PEG	Not available.
T7 Primer	Not available.
5X First Strand Buffer	Not available.
0.1 M DTT	Adverse symptoms may include the following: May cause skin sensitisation.
10 mM dNTP Mix	Not available.
RNase Inhibitor	Adverse symptoms may include the following: May cause skin sensitisation.
MMLV-RT	Adverse symptoms may include the following: May cause skin sensitisation.
4X Transcription Buffer	Adverse symptoms may include the following: May cause skin sensitisation.
NTP Mix	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X First Strand Buffer Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 µg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - Daphnia hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
0.1 M DTT (R*,R*) -1,4-Dimercaptobutane-2,3-diol	Acute LC50 27000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Not available.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	4.86	-	high
MMLV-RT Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	2.7	78.67	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

5X First Strand Buffer Contains one or more substances considered to have endocrine-disrupting properties.

MMLV-RT Contains one or more substances considered to have endocrine-disrupting properties.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

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

Special precautions : Dispose of material(s) and residues under controlled conditions. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID 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

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	Endocrine disrupting properties for environment	Listed	42	7/3/2017
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Endocrine disrupting properties for environment	Listed	42	7/3/2017

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
5X First Strand Buffer Polyoxyethylene octyl phenyl ether	Endocrine disrupting properties for environment	Recommended	ED/169/2012	7/3/2017
MMLV-RT Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Endocrine disrupting properties for environment	Recommended	ED/169/2012	7/3/2017

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 15: Regulatory information

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

Not listed.

Label	:	Inorganic Pyrophosphatase	Not applicable.
		T7 RNA Polymerase	Not applicable.
		PEG	Not applicable.
		T7 Primer	Not applicable.
		5X First Strand Buffer	Not applicable.
		0.1 M DTT	Not applicable.
		10 mM dNTP Mix	Not applicable.
		RNase Inhibitor	Not applicable.
		MMLV-RT	Not applicable.
		4X Transcription Buffer	Not applicable.
		NTP Mix	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

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
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.

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 15: Regulatory information

United States : At least one component is inactive.

Viet Nam : Not determined.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
5X First Strand Buffer Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

<p>5X First Strand Buffer</p> <p>H302 H315 H318 H400 H410 H412</p> <p>0.1 M DTT</p> <p>H302 H315 H319 H335 H412</p> <p>MMLV-RT</p> <p>H302 H315 H318 H400 H410</p>	<p>Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.</p> <p>Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.</p> <p>Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.</p>
---	---

Full text of classifications [CLP/GHS]

<p>5X First Strand Buffer</p> <p>Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Eye Dam. 1 Skin Irrit. 2</p> <p>0.1 M DTT</p> <p>Acute Tox. 4 Aquatic Chronic 3</p>	<p>ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2</p> <p>ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</p>
---	--

Quick Amp Labeling Kit, Part Number 5190-0424

SECTION 16: Other information

Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
MMLV-RT Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Eye Dam. 1 Skin Irrit. 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2

Date of issue/ Date of revision : 29/11/2022

Date of previous issue : No previous validation

Version : 1

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.