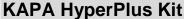
according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : KAPA HyperPlus Kit

Product code : 07962380001

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

Recommended restrictions : For professional users only.

on use

1.3 Details of the supplier of the safety data sheet

: Roche Diagnostics Deutschland GmbH Company

Sandhoferstrasse 116 68305 Mannheim Deutschland

: +496217590 Telephone Telefax : +496217592890 Responsible Department : +49(0)621-759-4223 E-mail address : info.dia-sds@roche.com

1.4 Emergency telephone number

Central Works Security In case of emergencies: +49(0)621-759-2203

Roche Diagnostics GmbH

Centre for detoxification: +49(0)6131-19240 Mainz

Munich +49(0)89-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms Signal word Warning

according to Regulation (EC) No. 1907/2006

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Hazard statements : H319 Causes serious eye irritation.

H371 May cause damage to organs.

Precautionary statements : Prevention:

P260 Do not breathe mist or vapours.P264 Wash skin thoroughly after handling.P280 Wear eye protection/ face protection.

Response:

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

2.3 Other hazards

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

KAPA Hyper Prep End Repair and A-Tailing Buffer

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

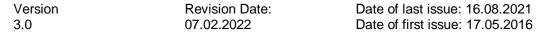
Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(R*,R*)-1,4-dimercaptobutane- 2,3-diol	3483-12-3 222-468-7 01-2120856806-42	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 300,03 mg/kg	>= 1,0 - < 2,5



according to Regulation (EC) No. 1907/2006







hydrogen chloride 7647-01-0 231-595-7 017-002-01-X	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 % STOT SE 3; H335 >= 10 %	>= 1,0 - < 3,0
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For explanation of abbreviations see section 16.

KAPA Hyper Prep Ligation Buffer

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

KAPA HiFi HotStart ReadyMix (2X)

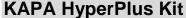
Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - single exposure, Category 2 H371: May cause damage to organs.

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
tetramethylammonium chloride	75-57-0	Acute Tox. 2; H300	>= 1,0 - < 2,5
	200-880-8	Acute Tox. 3; H311	
	01-2119970924-26	Skin Irrit. 2; H315	
		STOT SE 1; H370	
		Aquatic Chronic 2;	
		H411	
		Acute toxicity esti-	
		mate	
		Acute oral toxicity: 47	

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		mg/kg Acute dermal toxicity: 200,02 mg/kg	
Nucleotidyltransferase, deoxyribonucleate	9012-90-2 232-741-2	Not classified	< 0,1

For explanation of abbreviations see section 16.

KAPA Library Amplification Primer Premixes (10X)

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Taq DNA Polymerase	123340-12-5		< 0,1
		Acute toxicity esti- mate	
		Acute oral toxicity: > 5.001 mg/kg Acute inhalation toxicity (dust/mist): > 30 mg/l Acute dermal toxicity: > 5.001 mg/kg	

For explanation of abbreviations see section 16.

KAPA Hyper Prep DNA Ligase

Classification (REGULATION (EC) No 1272/2008)

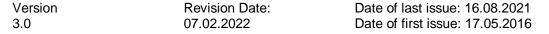
Not a hazardous substance or mixture.

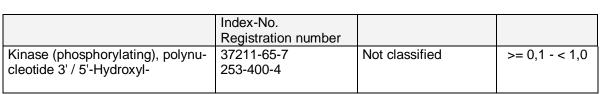
Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)

according to Regulation (EC) No. 1907/2006







For explanation of abbreviations see section 16.

KAPA Frag Enzyme (5X)

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Nucleotidyltransferase, deoxyri-	9012-90-2	Not classified	< 0,1
bonucleate	232-741-2		
Nuclease, deoxyribo-	9003-98-9	Resp. Sens. 1; H334	< 0,1
	232-667-0	Skin Sens. 1; H317	

For explanation of abbreviations see section 16.

KAPA Frag Conditioning Solution

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

KAPA Frag Buffer (10X)

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

KAPA HyperPlus ER&AT Enzyme Mix

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



according to Regulation (EC) No. 1907/2006



KAPA HyperPlus Kit

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Components

Odniponenta			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		,
	Registration number		
T DNIA D I	ŭ		0.4
Taq DNA Polymerase	123340-12-5		< 0,1
		Acute toxicity esti-	
		mate	
		maio	
		A quita aral taviaitus	
		Acute oral toxicity: >	
		5.001 mg/kg	
		Acute inhalation tox-	
		icity (dust/mist): > 30	
		mg/I	
		•	
		Acute dermal toxicity:	
		> 5.001 mg/kg	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Rinse mouth with water.

according to Regulation (EC) No. 1907/2006

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4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: No information available.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent product from entering drains. Environmental precautions

Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

according to Regulation (EC) No. 1907/2006

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply

with the technological safety standards.

Further information on stor-

age conditions

See label, package insert or internal guidelines

Storage class (TRGS 510) : 12, Non Combustible Liquids

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

SECTION 8: Exposure controls/personal protection

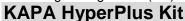
8.1 Control parameters

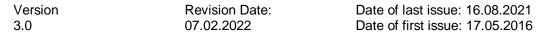
KAPA Hyper Prep End Repair and A-Tailing Buffer

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
hydrogen chloride	7647-01-0	TWA	5 ppm	2000/39/EC	
			8 mg/m3		
	Further information: Indicative				
		STEL	10 ppm	2000/39/EC	
			15 mg/m3		
	Further inform	nation: Indicative			

according to Regulation (EC) No. 1907/2006







	AGW	2 ppm	DE TRGS
		3 mg/m3	900
Peak-limit: excursion factor (category): 2;(I)			
Further inform	ation: When there is	compliance with the OEL ar	nd biological
tolerance valu	es, there is no risk o	of harming the unborn child	

KAPA Hyper Prep Ligation Buffer

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis	
		of exposure)			
Polyethylenglycol	25322-68-3	AGW (Inhalable	1.000 mg/m3	DE TRGS	
6000		fraction)		900	
		cursion factor (categ			
			s compliance with the OEL ar	nd biological	
	tolerance valu	ies, there is no risk c	of harming the unborn child		
		AGW (Inhalable	1.000 mg/m3	DE TRGS	
		fraction)		900	
	Peak-limit: excursion factor (category): 8;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance valu	ies, there is no risk c	of harming the unborn child		
		AGW (Inhalable	200 mg/m3	DE TRGS	
		fraction)		900	
	Peak-limit: excursion factor (category): 2;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				

KAPA HiFi HotStart ReadyMix (2X)

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	AGW (Inhalable fraction)	200 mg/m3	DE TRGS 900
	Peak-limit: ex	cursion factor (categ	ory): 2;(I)	
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Nucleotidyltrans- ferase, deoxyribo- nucleate	9012-90-2	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)

KAPA Library Amplification Primer Premixes (10X)

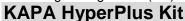
Contains no substances with occupational exposure limit values.

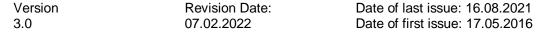
KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Occupational Exposure Limits

Components CAS-No. Value type (Form	Control parameters	Basis
-------------------------------------	--------------------	-------

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		of exposure)			
glycerol	56-81-5	AGW (Inhalable	200 mg/m3	DE TRGS	
		fraction)		900	
	Peak-limit: ex	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological				
	tolerance valu	tolerance values, there is no risk of harming the unborn child			
Taq DNA Poly-	123340-12-	IOEL	0,00006 mg/m3	Roche Indus-	
merase	5		_	trial Hygiene	
				Committee	
				(RIHC)	

KAPA Hyper Prep DNA Ligase

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	AGW (Inhalable	200 mg/m3	DE TRGS
		fraction)		900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological			
	tolerance values, there is no risk of harming the unborn child			
Kinase (phos- phorylating), poly- nucleotide 3' / 5'-	37211-65-7	IOEL	0,00006 mg/m3	Roche Indus- trial Hygiene Committee
Hydroxyl-				(RIHC)

KAPA Frag Enzyme (5X)

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	AGW (Inhalable fraction)	200 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Nucleotidyltrans- ferase, deoxyribo- nucleate	9012-90-2	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
Nuclease, deoxyri- bo-	9003-98-9	IOEL	0,00006 mg/m3	Roche Indus- trial Hygiene Committee (RIHC)

KAPA Frag Conditioning Solution

Contains no substances with occupational exposure limit values.

KAPA Frag Buffer (10X)

according to Regulation (EC) No. 1907/2006

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Contains no substances with occupational exposure limit values.

KAPA HyperPlus ER&AT Enzyme Mix

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
glycerol	56-81-5	AGW (Inhalable	200 mg/m3	DE TRGS
		fraction)	_	900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological			
	tolerance values, there is no risk of harming the unborn child			
Taq DNA Poly-	123340-12-	IOEL	0,00006 mg/m3	Roche Indus-
merase	5		_	trial Hygiene
				Committee
				(RIHC)

8.2 Exposure controls

Engineering measures

No data available

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Use eye protection according to EN 166.

Hand protection

In case of contact through splashing:

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : > 0,11 mm

In case of full contact:

 $\begin{array}{lll} \text{Material} & : & \text{butyl-rubber} \\ \text{Break through time} & : & > 480 \text{ min} \\ \text{Glove thickness} & : & > 0,4 \text{ mm} \end{array}$

Remarks : The selected protective gloves have to satisfy the specifica-

tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective

gloves.

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Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties KAPA Hyper Prep End Repair and A-Tailing Buffer

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 7,9

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

according to Regulation (EC) No. 1907/2006

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Relative density : No data available

Density : 1,045 g/cm3

Relative vapour density : No data available

KAPA Hyper Prep Ligation Buffer

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 8,1

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,053 g/cm3

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Relative vapour density No data available

KAPA HiFi HotStart ReadyMix (2X)

Physical state liquid

Colour colourless

Odour odourless

Odour Threshold No data available

Melting point/range No data available

Boiling point/boiling range No data available

Does not sustain combustion. Flammability

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

No data available Auto-ignition temperature

Decomposition temperature No data available

pН 8,7

Viscosity

Viscosity, dynamic No data available

Viscosity, kinematic No data available

Solubility(ies)

Water solubility completely miscible

Solubility in other solvents No data available

Partition coefficient: n-

octanol/water

No data available

No data available Vapour pressure

Relative density No data available

Density 1,044 g/cm3

Relative vapour density No data available

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KAPA Library Amplification Primer Premixes (10X)

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : ca. 100 °C

Flammability : Does not sustain combustion.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 7,7

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 0,996 g/cm3

Relative vapour density : No data available

according to Regulation (EC) No. 1907/2006

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KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : Does not sustain combustion.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 6,8

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,148 g/cm3

Relative vapour density : No data available

KAPA Hyper Prep DNA Ligase

Physical state : liquid

according to Regulation (EC) No. 1907/2006

KAPA HyperPlus Kit

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Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 6,5

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,148 g/cm3

Relative vapour density : No data available

KAPA Frag Enzyme (5X)

Physical state : liquid

Colour : colourless

Odour : No data available

Roche

according to Regulation (EC) No. 1907/2006

KAPA HyperPlus Kit

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Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 7,8

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,090 g/cm3

Relative vapour density : No data available

KAPA Frag Conditioning Solution

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

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Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 9,0

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 0,990 g/cm3

Relative vapour density : No data available

KAPA Frag Buffer (10X)

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : Does not sustain combustion.



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Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 8,3

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : 0,998 g/cm3

Relative vapour density : No data available

KAPA HyperPlus ER&AT Enzyme Mix

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : Does not sustain combustion.

Upper explosion limit / Upper : No data available

Roche

according to Regulation (EC) No. 1907/2006

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flammability limit

Lower explosion limit / Lower :

flammability limit

No data available

Flash point does not flash

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : ca. 5,5

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : ca. 1,15 g/cm3

Relative vapour density : No data available

9.2 Other information

KAPA Hyper Prep End Repair and A-Tailing Buffer

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Hyper Prep Ligation Buffer

Explosives : Not explosive



according to Regulation (EC) No. 1907/2006

KAPA HyperPlus Kit

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Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA HiFi HotStart ReadyMix (2X)

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Library Amplification Primer Premixes (10X)

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Hyper Prep DNA Ligase

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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KAPA HyperPlus Kit

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Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Frag Enzyme (5X)

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Frag Conditioning Solution

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA Frag Buffer (10X)

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

KAPA HyperPlus ER&AT Enzyme Mix



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KAPA HyperPlus Kit

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Explosives : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 KAPA Hyper Prep End Repair and A-Tailing Buffer

Acute toxicity

Not classified based on available information.

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2.000 mg/kg

Method: OECD Test Guideline 423

GLP: yes

Acute toxicity estimate: 300,03 mg/kg

Method: Calculation method





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Acute toxicity (other routes of :

administration) Symptoms: May cause cardiac arrhythmia., Convulsions,

Vomiting

Skin corrosion/irritation

Not classified based on available information.

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Species : human keratinocytes

Exposure time : 4 h

Method : OECD Test Guideline 431

Result : Irritating to skin.

GLP : yes

Species : reconstructed human epidermis (RhE)

Exposure time : 60 min

Method : OECD Test Guideline 439

Result : Irritating to skin.

GLP : yes

hydrogen chloride:

Result : Causes burns.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Species : Chicken eye

Exposure time : 10 s

Method : OECD Test Guideline 438
Result : Risk of serious damage to eyes.

GLP : yes

Species : Human Exposure time : 6 h

Method : OECD Test Guideline 492
Result : Risk of serious damage to eyes.

GLP : yes

hydrogen chloride:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation



according to Regulation (EC) No. 1907/2006

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Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 429

GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

hydrogen chloride:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA Hyper Prep Ligation Buffer

Acute toxicity

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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA HiFi HotStart ReadyMix (2X)

Acute toxicity

Not classified based on available information.

Components:

tetramethylammonium chloride:

Acute oral toxicity : LD50 Oral (Rat): 47 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute toxicity estimate: 47 mg/kg Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit): > 200 - < 500 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Acute toxicity estimate: 200,02 mg/kg

Method: Calculation method

Skin corrosion/irritation

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Components:

tetramethylammonium chloride:

Result : Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

tetramethylammonium chloride:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

tetramethylammonium chloride:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

tetramethylammonium chloride:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Result: negative

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Escherichia coli

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause damage to organs.

according to Regulation (EC) No. 1907/2006

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Components:

tetramethylammonium chloride:

Exposure routes : Ingestion

Target Organs : Central nervous system Assessment : Causes damage to organs.

Nucleotidyltransferase, deoxyribonucleate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

tetramethylammonium chloride:

Species : Rat NOAEL : 5 mg/kg Application Route : Oral

Method : OECD Test Guideline 421

GLP : yes

Aspiration toxicity

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate:

No data available

KAPA Library Amplification Primer Premixes (10X)

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

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Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Acute toxicity

Not classified based on available information.

Components:

Taq DNA Polymerase:

Acute oral toxicity : Acute toxicity estimate: > 5.001 mg/kg

Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l

Test atmosphere: dust/mist Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate: > 5.001 mg/kg

Method: Expert judgement

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

according to Regulation (EC) No. 1907/2006

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KOC

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Taq DNA Polymerase:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Taq DNA Polymerase:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

KAPA Hyper Prep DNA Ligase

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

Remarks : No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

according to Regulation (EC) No. 1907/2006

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Roche

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

No data available

KAPA Frag Enzyme (5X)

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Nuclease, deoxyribo-:

Assessment : May cause sensitisation by inhalation.

Assessment : May cause sensitisation by skin contact.

according to Regulation (EC) No. 1907/2006

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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate:

No data available

KAPA Frag Conditioning Solution

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

according to Regulation (EC) No. 1907/2006

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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA Frag Buffer (10X)

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA HyperPlus ER&AT Enzyme Mix

Acute toxicity

Not classified based on available information.

Components:

Taq DNA Polymerase:

according to Regulation (EC) No. 1907/2006

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Acute oral toxicity : Acute toxicity estimate: > 5.001 mg/kg

Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l

Test atmosphere: dust/mist Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate: > 5.001 mg/kg

Method: Expert judgement

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Taq DNA Polymerase:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Taq DNA Polymerase:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity



according to Regulation (EC) No. 1907/2006

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep End Repair and A-Tailing Buffer

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep Ligation Buffer

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA HiFi HotStart ReadyMix (2X)

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Components:

tetramethylammonium chloride:

Remarks : Other dangerous properties can not be excluded.

KAPA Library Amplification Primer Premixes (10X)

according to Regulation (EC) No. 1907/2006

KAPA HyperPlus Kit

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Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep DNA Ligase

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Enzyme (5X)

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Conditioning Solution

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Buffer (10X)

according to Regulation (EC) No. 1907/2006

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Roche

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA HyperPlus ER&AT Enzyme Mix

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

KAPA Hyper Prep End Repair and A-Tailing Buffer

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 34,8 mg/l

End point: Immobilization Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: ves

Remarks: nominal concentration

NOEC (Daphnia magna (Water flea)): 25,0 mg/l

End point: Immobilization Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: nominal concentration

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

24,3 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: nominal concentration

according to Regulation (EC) No. 1907/2006

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NOErC (Raphidocelis subcapitata (freshwater green alga)):

3,2 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: nominal concentration

NOEyC (Raphidocelis subcapitata (freshwater green alga)):

1,0 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: nominal concentration

hydrogen chloride:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

KAPA Hyper Prep Ligation Buffer

No data available

KAPA HiFi HotStart ReadyMix (2X)

Components:

tetramethylammonium chloride:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 462 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,16 mg/l

Exposure time: 11 d

GLP: yes

NOEC (Daphnia magna (Water flea)): 0,03 mg/l

Exposure time: 11 d

GLP: yes

LC50 (Daphnia magna (Water flea)): 1,86 mg/l

Exposure time: 48 h

GLP: yes

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 115

mg/l

according to Regulation (EC) No. 1907/2006

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Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

No data available

Nucleotidyltransferase, deoxyribonucleate:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

No data available

KAPA Library Amplification Primer Premixes (10X)

No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Components:

Taq DNA Polymerase:

Toxicity to fish : LC50 : > 100 mg/l

Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

KAPA Hyper Prep DNA Ligase

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

No data available

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according to Regulation (EC) No. 1907/2006

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KAPA Frag Enzyme (5X)

Components:

Nucleotidyltransferase, deoxyribonucleate:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

No data available

Nuclease, deoxyribo-:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

No data available

KAPA Frag Conditioning Solution

No data available

KAPA Frag Buffer (10X)

No data available

KAPA HyperPlus ER&AT Enzyme Mix

Components:

Taq DNA Polymerase:

Toxicity to fish : LC50 : > 100 mg/l

Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

12.2 Persistence and degradability

KAPA Hyper Prep End Repair and A-Tailing Buffer

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 64,3 mg/l

according to Regulation (EC) No. 1907/2006

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Result: Not readily biodegradable.

Biodegradation: 53 % Exposure time: 43 d

Method: OECD Test Guideline 301B

Method: see user defined free text

GLP: yes

Remarks: The 10 day time window criterion is not fulfilled.

Physico-chemical removabil- :

ity Remarks: Not abiotically degradable

KAPA Hyper Prep Ligation Buffer

No data available

KAPA HiFi HotStart ReadyMix (2X)

Components:

tetramethylammonium chloride:

Biodegradability : Remarks: Expected to be biodegradable

KAPA Library Amplification Primer Premixes (10X)

No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

No data available

KAPA Hyper Prep DNA Ligase

No data available

KAPA Frag Enzyme (5X)

No data available

KAPA Frag Conditioning Solution

No data available

KAPA Frag Buffer (10X)

No data available

KAPA HyperPlus ER&AT Enzyme Mix

No data available

12.3 Bioaccumulative potential

KAPA Hyper Prep End Repair and A-Tailing Buffer

Components:

(R*,R*)-1,4-dimercaptobutane-2,3-diol:

Partition coefficient: n- : log Pow: 0,07 (25 °C)

octanol/water pH: 5,0

Method: OECD Test Guideline 117

GLP: yes

hydrogen chloride:

Partition coefficient: n-

octanol/water

Remarks: No data available

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KAPA Hyper Prep Ligation Buffer

No data available

KAPA HiFi HotStart ReadyMix (2X)

Components:

tetramethylammonium chloride:

Partition coefficient: n- : Remarks: No data available

octanol/water

Nucleotidyltransferase, deoxyribonucleate:

Partition coefficient: n- : Remarks: No data available

octanol/water

KAPA Library Amplification Primer Premixes (10X)

No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Components:

Tag DNA Polymerase:

Partition coefficient: n- : Remarks: No data available

octanol/water

KAPA Hyper Prep DNA Ligase

Components:

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-:

Partition coefficient: n- : Remarks: No data available

octanol/water

KAPA Frag Enzyme (5X)

Components:

Nucleotidyltransferase, deoxyribonucleate:

Partition coefficient: n- : Remarks: No data available

octanol/water

Nuclease, deoxyribo-:

Partition coefficient: n- : Remarks: No data available

octanol/water

KAPA Frag Conditioning Solution

No data available

KAPA Frag Buffer (10X)

No data available

according to Regulation (EC) No. 1907/2006

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KAPA HyperPlus ER&AT Enzyme Mix

Components:

Taq DNA Polymerase:

Partition coefficient: n- : Remarks: No data available

octanol/water

12.4 Mobility in soil

KAPA Hyper Prep End Repair and A-Tailing Buffer

No data available

KAPA Hyper Prep Ligation Buffer

No data available

KAPA HiFi HotStart ReadyMix (2X)

No data available

KAPA Library Amplification Primer Premixes (10X)

No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

No data available

KAPA Hyper Prep DNA Ligase

No data available

KAPA Frag Enzyme (5X)

No data available

KAPA Frag Conditioning Solution

No data available

KAPA Frag Buffer (10X)

No data available

KAPA HyperPlus ER&AT Enzyme Mix

No data available

12.5 Results of PBT and vPvB assessment

KAPA Hyper Prep End Repair and A-Tailing Buffer

Not relevant

KAPA Hyper Prep Ligation Buffer

Not relevant

KAPA HiFi HotStart ReadyMix (2X)

Not relevant

KAPA Library Amplification Primer Premixes (10X)

Not relevant

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

Not relevant

KAPA Hyper Prep DNA Ligase

Not relevant

according to Regulation (EC) No. 1907/2006



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KAPA Frag Enzyme (5X)

Not relevant

KAPA Frag Conditioning Solution

Not relevant

KAPA Frag Buffer (10X)

Not relevant

KAPA HyperPlus ER&AT Enzyme Mix

Not relevant

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep End Repair and A-Tailing Buffer

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep Ligation Buffer

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA HiFi HotStart ReadyMix (2X)

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Library Amplification Primer Premixes (10X)

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

according to Regulation (EC) No. 1907/2006

KAPA HyperPlus Kit

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Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Hyper Prep DNA Ligase

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Enzyme (5X)

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Conditioning Solution

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA Frag Buffer (10X)

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

KAPA HyperPlus ER&AT Enzyme Mix

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

KAPA Hyper Prep End Repair and A-Tailing Buffer

No data available

KAPA Hyper Prep Ligation Buffer

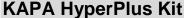
No data available

KAPA HiFi HotStart ReadyMix (2X)

No data available



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KAPA Library Amplification Primer Premixes (10X)

No data available

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

No data available

KAPA Hyper Prep DNA Ligase

No data available

KAPA Frag Enzyme (5X)

No data available

KAPA Frag Conditioning Solution

No data available

KAPA Frag Buffer (10X)

No data available

KAPA HyperPlus ER&AT Enzyme Mix

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006

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14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN,

IMDG-Code, ICAO/IATA-DGR

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

SECTION 15: Regulatory information

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

Not applicable

ture

Seveso III: Directive : 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving :

accident hazards involvi dangerous substances.

Water hazard class (Germa- : WGK 1 slightly hazardous to water

ny)

KAPA Hyper Prep End Repair and A-Tailing Buffer

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

according to Regulation (EC) No. 1907/2006

Roche

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2'-deoxyadenosine 5'-(tetrahydrogen triphosphate)
Adenosine 5#-triphosphate disodium salt hydrate

Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodi-

um salt

2'-Deoxycytidine 5'-triphosphate disodium salt

Thymidine 5'-#(tetrahydrogen triphosphate)#, sodium salt

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

according to Regulation (EC) No. 1907/2006

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KAPA Hyper Prep Ligation Buffer

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Adenosine 5#-triphosphate disodium salt hydrate

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

according to Regulation (EC) No. 1907/2006

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Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA HiFi HotStart ReadyMix (2X)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

: Not applicable

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodi-

um salt

2'-deoxyadenosine 5'-(tetrahydrogen triphosphate)
Thymidine 5'-#(tetrahydrogen triphosphate)#, sodium salt

2'-Deoxycytidine 5'-triphosphate disodium salt

Antibodies

dUTP diphosphatase

Nucleotidyltransferase, deoxyribonucleate

according to Regulation (EC) No. 1907/2006

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NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Warning

Hazard statements : H371 May cause damage to organs.

Precautionary statements : Prevention:

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

75-57-0 tetramethylammonium chloride

according to Regulation (EC) No. 1907/2006

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KAPA Library Amplification Primer Premixes (10X)

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Primer / Oligonucleotide / Probe

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI: Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI : Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

according to Regulation (EC) No. 1907/2006

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emissions (integrated pollution prevention and control) Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Detergent N (Number on list 46b,

46a.)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

The components of this product are reported in the following inventories:

AIIC Not in compliance with the inventory

DSL This product contains the following components that are not

on the Canadian DSL nor NDSL.

Taq DNA Polymerase

Nucleotidyltransferase, deoxyribonucleate

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-

NZIoC On the inventory, or in compliance with the inventory

ENCS Not in compliance with the inventory

ISHL Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

according to Regulation (EC) No. 1907/2006

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IECSC Not in compliance with the inventory

TCSI Not in compliance with the inventory

TSCA Product contains substance(s) not listed on TSCA inventory.

TECI Not in compliance with the inventory

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

: Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA Hyper Prep DNA Ligase

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances, preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Regulation (EC) No 649/2012 of the European Parlia-

ment and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation

(Annex XIV)

The components of this product are reported in the following inventories: AIIC : Not in compliance with the inventory

DSL This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-

NZIoC On the inventory, or in compliance with the inventory

ENCS Not in compliance with the inventory

according to Regulation (EC) No. 1907/2006

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ISHL Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

TCSI On the inventory, or in compliance with the inventory

TSCA All substances listed as active on the TSCA inventory

TECI Not in compliance with the inventory

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Not applicable

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA Frag Enzyme (5X)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation Not applicable

(Annex XIV)

The components of this product are reported in the following inventories:

AIIC Not in compliance with the inventory

DSL This product contains the following components that are not

on the Canadian DSL nor NDSL.

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according to Regulation (EC) No. 1907/2006

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T4-GEN32-Proteine

Albumins, blood plasma, Cohn fraction V Nucleotidyltransferase, deoxyribonucleate

Nuclease, deoxyribo-

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA Frag Conditioning Solution

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

ces,

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

according to Regulation (EC) No. 1907/2006

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REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

The components of this product are reported in the following inventories:

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA Frag Buffer (10X)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

substances that de- : Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Not applicable

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

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according to Regulation (EC) No. 1907/2006

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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodi-

um salt

2'-deoxyadenosine 5'-(tetrahydrogen triphosphate)
Thymidine 5'-#(tetrahydrogen triphosphate)#, sodium salt

2'-Deoxycytidine 5'-triphosphate disodium salt

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA HyperPlus ER&AT Enzyme Mix

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Detergent N (Number on list 46b,

according to Regulation (EC) No. 1907/2006

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46a.)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Taq DNA Polymerase

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI: Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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according to Regulation (EC) No. 1907/2006

Roche

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15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals.

H300 : Fatal if swallowed. H302 : Harmful if swallowed. H311 : Toxic in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction. H318 : Causes serious eye damage.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation. H370 : Causes damage to organs.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam.Met. Corr.Resp. Sens.Serious eye damageCorrosive to metalsRespiratory sensitisation

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

according to Regulation (EC) No. 1907/2006



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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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