

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HyperPlus Kit (PCR-free)

Version  
2.3

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 17.05.2016

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

#### 1.1 Product identifier

Trade name : KAPA HyperPlus Kit (PCR-free)  
Product code : 07962410001

#### 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

Company : Roche Diagnostics Deutschland GmbH  
-  
Sandhoferstrasse 116  
68305 Mannheim  
Deutschland  
Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-4223  
E-mail address : info.dia-sds@roche.com

#### 1.4 Emergency telephone number

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH  
Centre for detoxification: : Mainz +49(0)6131-19240  
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

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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.

### 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
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)	>= 1,0 - < 3,0

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		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 %	
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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 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	Acute toxicity estimate  Acute oral toxicity: > 5.001 mg/kg Acute inhalation toxicity (dust/mist): > 30 mg/l Acute dermal toxicity: > 5.001 mg/kg	< 0,1

For explanation of abbreviations see section 16.

### KAPA Hyper Prep DNA Ligase

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### 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)
Kinase (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-	37211-65-7 253-400-4	Not classified	$\geq 0,1$ - $< 1,0$

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

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.

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### KAPA HyperPlus ER&AT 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	Acute toxicity estimate  Acute oral toxicity: > 5.001 mg/kg Acute inhalation toxicity (dust/mist): > 30 mg/l Acute dermal toxicity: > 5.001 mg/kg	< 0,1

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.

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If symptoms persist, call a physician.  
Rinse mouth with water.

### 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 circumstances 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 necessary.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances 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

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.

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### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application 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 storage conditions : See label, package insert or internal guidelines
- Storage class (TRGS 510) : 12, Non Combustible Liquids
- Further information on storage 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 8 mg/m <sup>3</sup>	2000/39/EC
Further information: Indicative				
		STEL	10 ppm	2000/39/EC

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			15 mg/m3	
	Further information: Indicative			
		AGW	2 ppm 3 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			

### KAPA Hyper Prep Ligation Buffer

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Polyethylenglycol 6000	25322-68-3	AGW (Inhalable fraction)	1.000 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 8;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Inhalable fraction)	1.000 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 8;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Inhalable fraction)	200 mg/m3	DE TRGS 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 Hyper Prep End Repair & A-Tailing Enzyme Mix

#### 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			
Taq DNA Polymerase	123340-12-5	IOEL	0,00006 mg/m3	Roche Industrial 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



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		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 (phosphorylating), polynucleotide 3' / 5'-Hydroxyl-	37211-65-7	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (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			
Nucleotidyltransferase, deoxyribonucleate	9012-90-2	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
Nuclease, deoxyribo-	9003-98-9	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)

### KAPA Frag Conditioning Solution

Contains no substances with occupational exposure limit values.

### KAPA Frag Buffer (10X)

Contains no substances with occupational exposure limit values.

### KAPA HyperPlus ER&AT Enzyme Mix

#### 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			
Taq DNA Polymerase	123340-12-5	IOEL	0,00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)

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### 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:  
Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : > 0,4 mm

Remarks : The selected protective gloves have to satisfy the specifications 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.

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

## 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

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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
Relative density	:	No data available
Density	:	1,045 g/cm <sup>3</sup>
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

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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 : 8,1

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/cm<sup>3</sup>

Relative vapour density : No data available

## ***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

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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 : 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/cm<sup>3</sup>

Relative vapour density : No data available

## KAPA Hyper Prep DNA Ligase

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

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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/cm <sup>3</sup>
Relative vapour density	: No data available

### **KAPA Frag Enzyme (5X)**

Physical state	: liquid
Colour	: colourless
Odour	: No data available
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

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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/cm <sup>3</sup>
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
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

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### 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/cm<sup>3</sup>

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.

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



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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/cm <sup>3</sup>
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 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	:	ca. 5,5
Viscosity		
Viscosity, dynamic	:	No data available

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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/cm <sup>3</sup>
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
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.

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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.  
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)***

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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**

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**

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### 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

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.

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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

Not classified based on available information.

### 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 mutation 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.

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### **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**

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 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

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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

Not classified based on available information.

## KAPA Hyper Prep DNA Ligase

### Acute toxicity

Not classified based on available information.



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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.

### **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.

### **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

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### **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.

#### **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.

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### **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**

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 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.

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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 HyperPlus ER&AT 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

Not classified based on available information.

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### 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.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : 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.

## *KAPA Hyper Prep End Repair and A-Tailing Buffer*

### Endocrine disrupting properties

#### Product:

Assessment : 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.

## *KAPA Hyper Prep Ligation Buffer*

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(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 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.

### ***KAPA Hyper Prep DNA Ligase***

#### **Endocrine disrupting properties**

##### **Product:**

Assessment : 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.

### ***KAPA Frag Enzyme (5X)***

#### **Endocrine disrupting properties**

##### **Product:**

Assessment : 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.

### ***KAPA Frag Conditioning Solution***

#### **Endocrine disrupting properties**

##### **Product:**

Assessment : 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.

### ***KAPA Frag Buffer (10X)***

#### **Endocrine disrupting properties**

##### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

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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 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 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: yes  
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

NOErC (Raphidocelis subcapitata (freshwater green alga)): 3,2 mg/l  
End point: Growth rate  
Exposure time: 72 h

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Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: nominal concentration

NOEC (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 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.



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Other organisms relevant to the environment : No data available

### **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:**

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Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 64,3 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 53 %  
Exposure time: 43 d  
Method: OECD Test Guideline 301B  
GLP: yes  
Remarks: The 10 day time window criterion is not fulfilled.

Physico-chemical removability : Method: see user defined free text  
Remarks: Not abiotically degradable

### **KAPA Hyper Prep Ligation Buffer**

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-octanol/water : log Pow: 0,07 (25 °C)  
pH: 5,0  
Method: OECD Test Guideline 117  
GLP: yes

#### **hydrogen chloride:**

Partition coefficient: n-octanol/water : Remarks: No data available

### **KAPA Hyper Prep Ligation Buffer**

No data available

### **KAPA Hyper Prep End Repair & A-Tailing Enzyme Mix**

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### Components:

#### **Taq 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

### ***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 Hyper Prep End Repair & A-Tailing Enzyme Mix***

No data available

### ***KAPA Hyper Prep DNA Ligase***

No data available

### ***KAPA Frag Enzyme (5X)***

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## **KAPA HyperPlus Kit (PCR-free)**

Version  
2.3

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07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 17.05.2016

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 Hyper Prep End Repair & A-Tailing Enzyme Mix***

Not relevant

### ***KAPA Hyper Prep DNA Ligase***

Not relevant

### ***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 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.

### ***KAPA Hyper Prep End Repair and A-Tailing Buffer***

### **Product:**

Assessment : 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.

### ***KAPA Hyper Prep Ligation Buffer***

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

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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**

Assessment : 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.

### **KAPA Hyper Prep DNA Ligase**

Assessment : 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.

### **KAPA Frag Enzyme (5X)**

Assessment : 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.

### **KAPA Frag Conditioning Solution**

Assessment : 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.

### **KAPA Frag Buffer (10X)**

Assessment : 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.

### **KAPA HyperPlus ER&AT Enzyme Mix**

Assessment : 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.

#### **12.7 Other adverse effects**

##### **KAPA Hyper Prep End Repair and A-Tailing Buffer**

No data available

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### ***KAPA Hyper Prep Ligation Buffer***

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 chemical 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 handling 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

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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 mixture

Seveso III: Directive : Not applicable  
2012/18/EU of the European  
Parliament and of the Council  
on the control of major-  
accident hazards involving  
dangerous substances.

Water hazard class (Germany) : WGK 1 slightly hazardous to water

### ***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 deplete the ozone layer : Not applicable

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

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2'-deoxyadenosine 5'-(tetrahydrogen triphosphate)  
Adenosine 5'-triphosphate disodium salt hydrate  
Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodium 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.



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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) : Not applicable

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 pollutants (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)

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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 deplete the ozone layer : Not applicable

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

IECSC : Not in compliance with the inventory

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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) : Not applicable

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 pollutants (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 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

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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

### 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)	:	Not applicable
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 pollutants (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.

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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)	:	Not applicable
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 pollutants (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	:	Not applicable

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(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)	: Not applicable
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 pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament	: Not applicable

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ment 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.  Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodium 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, 46a.)

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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 pollutants (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)

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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.
H302	: Harmful if swallowed.
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 difficulties if inhaled.
H335	: May cause respiratory irritation.
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.	: Serious eye damage
Met. Corr.	: Corrosive to metals
Resp. Sens.	: Respiratory 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; AIIIC - 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 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 Re-

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striction 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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