

KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

SECTION 1. IDENTIFICATION

Product name : KAPA Stranded RNA-Seg Kit with RiboErase (HMR)

Product code : 07962282001

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

-

Address : 9115 Hague Road

Indianapolis, IN 46250

USA

Telephone : 1-800-428-5074

Emergency telephone

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or Ca-

nada)

1-703-527-3887 (Internatio-

nal)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H370 Causes damage to organs.

Precautionary Statements : Prevention:

P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling.

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

Response:

P307 + P311 IF exposed: Call a POISON CENTER or doctor/

physician.

Storage:



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P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Kapa A-Tailing Buffer (10X)

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

Kapa Ligation Buffer (5X)

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), .alpha	25322-68-3	>= 30 - < 50
hydroomegahydroxy-		
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

KAPA Fragment, Prime and Elute Buffer (2X)

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		
Potassium chloride (KCI)	7447-40-7	>= 1 - < 5

Actual concentration is withheld as a trade secret

KAPA 1st Strand Synthesis Buffer



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GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

KAPA 2nd Strand Marking Buffer

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

KAPA RiboErase Hybridization Buffer

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 5 - < 10
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

KAPA RiboErase Depletion Buffer

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

KAPA HiFi HotStart ReadyMix (2X)

GHS Classification

Specific target organ toxicity : Category 1

- single exposure

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 10 - < 20
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5



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(hydroxymethyl)-		
Methanaminium, N,N,N-trimethyl-,	75-57-0	>= 1 - < 5
chloride (1:1)		
DNA-dependent DNA polymerase	9012-90-2	< 0.1

Actual concentration is withheld as a trade secret

KAPA Script

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70

Actual concentration is withheld as a trade secret

KAPA Library Amplification Primer Premixes (10X)

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

KAPA Hyper Prep DNA Ligase

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70
Polynucleotide 5'-hydroxyl kinase	37211-65-7	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

KAPA A-Tailing Enzyme

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70
DNA-dependent DNA polymerase	9012-90-2	< 0.1

Actual concentration is withheld as a trade secret

KAPA 2nd Strand Synthesis Enzyme Mix



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GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70

Actual concentration is withheld as a trade secret

KAPA DNase Buffer

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Propanediol, 2-amino-2-	77-86-1	>= 1 - < 5
(hydroxymethyl)-		

Actual concentration is withheld as a trade secret

KAPA RNase H

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70

Actual concentration is withheld as a trade secret

KAPA DNase

GHS Classification

Not a hazardous substance or mixture.

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 - < 70

Actual concentration is withheld as a trade secret

RiboErase Hybridization Oligos (HMR)

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES



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General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in atten-

dance.

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.

Most important symptoms and effects, both acute and

delayed

None known.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

SECTION 5. FIRE-FIGHTING MEASURES

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

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

No information available.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

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

cannot be contained.

Methods and materials for

containment and 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.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/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.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated pla-

ce

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

See label, package insert or internal guidelines

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Kapa A-Tailing Buffer (10X)

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Kapa Ligation Buffer (5X)

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Poly(oxy-1,2-	25322-68-3	TWA (aero-	10 mg/m3	US WEEL
ethanediyl), .alphahydro-		sol)		



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.omega.-hydroxy-

KAPA Fragment, Prime and Elute Buffer (2X)

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA 1st Strand Synthesis Buffer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA 2nd Strand Marking Buffer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA RiboErase Hybridization Buffer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA RiboErase Depletion Buffer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA HiFi HotStart ReadyMix (2X)

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m3	Roche In- dustrial Hy- giene Com- mittee (RIHC)

KAPA Script

Ingredients with workplace control parameters

mgreaterite with workplace control parameters						
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis		
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1		
		TWA (mist,	15 mg/m3	OSHA Z-1		



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total dust)		
TWA (Mist -	10 mg/m3	OSHA P0
total dust)	_	
TWA (Mist -	5 mg/m3	OSHA P0
respirable		
fraction)		

KAPA Library Amplification Primer Premixes (10X)

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA Hyper Prep DNA Ligase

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
Polynucleotide 5'-hydroxyl kinase	37211-65-7	IOEL	0.00006 mg/m3	Roche In- dustrial Hy- giene Com- mittee (RIHC)

KAPA A-Tailing Enzyme

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m3	Roche In- dustrial Hy- giene Com- mittee (RIHC)

KAPA 2nd Strand Synthesis Enzyme Mix



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Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

KAPA DNase Buffer

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA RNase H

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

KAPA DNase

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

RiboErase Hybridization Oligos (HMR)



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Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : No data available

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an appro-

ved filter.

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 : Wear appropriate protective gloves to prevent skin contact.

Replace torn or punctured gloves promptly.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

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

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Kapa A-Tailing Buffer (10X)

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 8.0

Melting point/range : No data available

Boiling point/boiling range : No data available



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Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.040 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

Kapa Ligation Buffer (5X)

Appearance : liquid

Color : colorless



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Odor : odorless

Odor Threshold : No data available

pH : 7.6

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.040 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive



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

KAPA Fragment, Prime and Elute Buffer (2X)

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 8.7

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.005 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available



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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA 1st Strand Synthesis Buffer

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 8.7

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available



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Density : 1.00 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA 2nd Strand Marking Buffer

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 8.5

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper : No data available



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flammability limit

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure No data available

Relative vapor density No data available

Relative density No data available

0.998 g/cm3 Density

Solubility(ies)

Water solubility completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

No data available Autoignition temperature

Decomposition temperature No data available

Viscosity

Viscosity, dynamic No data available

Viscosity, kinematic No data available

Explosive properties Not explosive

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

KAPA RiboErase Hybridization Buffer

Appearance liquid

Color colorless

Odor odorless

Odor Threshold No data available

7.9 pН

Melting point/range No data available

Boiling point/boiling range No data available



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Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.068 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA RiboErase Depletion Buffer

Appearance : liquid

Color : colorless

Odor : odorless



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Odor Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.030 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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



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KAPA HiFi HotStart ReadyMix (2X)

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 8.7

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : Does not sustain combustion.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.044 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available



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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA Script

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.0

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)



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Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA Library Amplification Primer Premixes (10X)

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.7

Melting point/range : No data available

Boiling point/boiling range : ca. 212 °F / 100 °C

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : Does not sustain combustion.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower : No data available



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flammability limit

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 0.996 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA Hyper Prep DNA Ligase

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 6.5

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available



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Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA A-Tailing Enzyme

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available



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pH : 6.0

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA 2nd Strand Synthesis Enzyme Mix



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Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : 7.4

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available



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Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA DNase Buffer

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.9

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.03 g/cm3

Solubility(ies)

Water solubility : completely miscible



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA RNase H

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.5

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

KAPA DNase

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.5

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.148 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

RiboErase Hybridization Oligos (HMR)

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : 7.7

Melting point/range : No data available

Boiling point/boiling range : No data available



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Flash point : does not flash

Evaporation rate : No data available

Flammability (liquids) : Does not sustain combustion.

The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 0.996 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Possibility of hazardous reac- :

No dangerous reaction known under conditions of normal use.

No decomposition if stored and applied as directed.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

tions

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Kapa A-Tailing Buffer (10X)

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.



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Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: ves

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.



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OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes



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Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Kapa Ligation Buffer (5X)

Acute toxicity

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Acute oral toxicity : LD50 Oral (Rat): 28,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 5.1 mg/l

Test atmosphere: dust/mist Method: Expert judgment

Acute dermal toxicity : LD50 Dermal (Rabbit): 20,000 mg/kg

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes



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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on data from similar materials



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Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral



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Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes

Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

KAPA Fragment, Prime and Elute Buffer (2X)

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Potassium chloride (KCI):

Acute oral toxicity : LD50 (Rat, female): 3,020 mg/kg

GLP: No information available.

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Potassium chloride (KCI):

Species : reconstructed human epidermis (RhE)

Exposure time : 20 min

Method : OECD Test Guideline 439

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation



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Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Potassium chloride (KCI):

Result : No eye irritation

Exposure time : 60 min GLP : yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA) Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes



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Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on data from similar materials

Potassium chloride (KCI):

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

GLP: No information available.

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells

Method: OECD Test Guideline 473

Result: positive

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

Potassium chloride (KCI):

Species : Rat, male
Application Route : Oral
Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

Potassium chloride (KCI):

Effects on fetal development : Species: Rat, female

Application Route: Oral

Dose: 3.1, 14.4, 66.8, 310 mg/kg bw Duration of Single Treatment: 6 - 15 d

General Toxicity Maternal: NOAEL: 310 mg/kg body weight Developmental Toxicity: NOAEL: 310 mg/kg body weight

GLP: No information available.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg



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LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : ves

Remarks : Based on data from similar materials

Potassium chloride (KCI):

Species : Rat, male NOAEL : 1,820 mg/kg

Application Route : Oral Exposure time : 2 y

Dose : 110, 450, 1820 mg/kg bw/day GLP : No information available.

Aspiration toxicity

Not classified based on available information.

KAPA 1st Strand Synthesis 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 sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity



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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 2nd Strand Marking Buffer

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitization

Skin sensitization



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Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.



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OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes



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Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

KAPA RiboErase Hybridization Buffer

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization



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Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : Does not cause skin sensitization.

GLP : ves

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.



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NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414
Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes

Remarks : Based on data from similar materials



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Aspiration toxicity

Not classified based on available information.

KAPA RiboErase Depletion Buffer

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)



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Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.



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Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes

Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

KAPA HiFi HotStart ReadyMix (2X)



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Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

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

Method: OECD Test Guideline 401

GLP: no

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

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes



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Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Result : Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : ves

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA) Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials



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Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitization.

Method : OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Remarks: Based on data from similar materials

Methanaminium, N,N,N-trimethyl-, chloride (1:1):



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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.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral



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Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Causes damage to organs.

Components:

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Routes of exposure : Ingestion

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

DNA-dependent 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:

DNA-dependent DNA polymerase:

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily



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Dose : 4580 - 25,800 mg/kg/day

GLP : no

Species : Rat, male and female

Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week
Dose : 33, 165 and 660 mg/m3
GLP : No information available.

Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks

Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes

Remarks : Based on data from similar materials

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

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:

DNA-dependent DNA polymerase:

No data available



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Further information

Components:

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Remarks : Other dangerous properties can not be excluded.

KAPA Script

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization



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Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity



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Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no

Species : Rat, male and female

Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week
Dose : 33, 165 and 660 mg/m3
GLP : No information available.

Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks

Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

: Mild eye irritant, Mild respiratory irritant, No skin irritation



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Aspiration toxicity

Not classified based on available information.

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 sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

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 DNA Ligase

Acute toxicity



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

Polynucleotide 5'-hydroxyl kinase:

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day



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Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

Components:

Polynucleotide 5'-hydroxyl kinase:

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:

Polynucleotide 5'-hydroxyl kinase:

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no

Species : Rat, male and female

Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week
Dose : 33, 165 and 660 mg/m3
GLP : No information available.

Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks



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Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

Aspiration toxicity

Not classified based on available information.

Components:

Polynucleotide 5'-hydroxyl kinase:

No data available

KAPA A-Tailing Enzyme

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation



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Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

Components:

DNA-dependent 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:

DNA-dependent DNA polymerase:

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Rat, male and female **Species**

Application Route Inhalation dust/mist Test atmosphere Exposure time 13 Weeks

Number of exposures : 6 hours/day, 5 days/week 33, 165 and 660 mg/m3 Dose **GLP** No information available.

Species Rat

NOAEL 5040 mg/kg NOAEL 5,040 mg/kg dermal Application Route : 45 Weeks Exposure time

8 hours/day, 5 days/week Number of exposures

Dose $0.5-4.0 \, \text{ml/kg}$

GLP

Repeated dose toxicity -

: Mild eye irritant, Mild respiratory irritant, No skin irritation

Assessment

Aspiration toxicity

Not classified based on available information.

Components:

DNA-dependent DNA polymerase:

No data available

KAPA 2nd Strand Synthesis Enzyme Mix

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

> Exposure time: 7 h Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:



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Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female



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Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no



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Species : Rat, male and female

Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week
Dose : 33, 165 and 660 mg/m3
GLP : No information available.

Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks

Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

: Mild eye irritant, Mild respiratory irritant, No skin irritation

Aspiration toxicity

Not classified based on available information.

KAPA DNase Buffer

Acute toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation



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Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : Does not cause skin sensitization.

GLP : yes

Remarks : Based on data from similar materials

Expert judgment

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

GLP : no

Remarks : Based on data from similar materials

Test Type : Intracutaneous test

Species : Guinea pig

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes



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Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg body

weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No effects on fetal development.

GLP: yes

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.



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Repeated dose toxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Species : Rat, male and female

NOAEL : 250 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 62.5, 250, 1000 mg/kg bw Method : OECD Test Guideline 408

GLP : yes

Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

KAPA RNase H

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.



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Components:

glycerol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no

Species : Rat, male and female

Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week
Dose : 33, 165 and 660 mg/m3
GLP : No information available.



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Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks

Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

: Mild eye irritant, Mild respiratory irritant, No skin irritation

Aspiration toxicity

Not classified based on available information.

KAPA DNase

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

Species : Rabbit

Result : No eye irritation



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Exposure time : 7 d GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

glycerol:

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Germ cell mutagenicity

Not classified based on available information.

Components:

glycerol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Carcinogenicity

Not classified based on available information.

Components:

glycerol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.



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NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral Dose: 2000 mg/kg bw/day

Fertility: NOAEL: 2,000 mg/kg body weight

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day

Duration of Single Treatment: 29 d

Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day

GLP: no

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

glycerol:

Species : Rat, male and female

NOAEL : 4580 mg/kg NOAEL : 4,580 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 4580 - 25,800 mg/kg/day

GLP : no

Species : Rat, male and female

Application Route : Inhalation Test atmosphere : dust/mist Exposure time : 13 Weeks

Number of exposures : 6 hours/day, 5 days/week Dose : 33, 165 and 660 mg/m3 GLP : No information available.

Species : Rat

NOAEL : 5040 mg/kg
NOAEL : 5,040 mg/kg
Application Route : dermal
Exposure time : 45 Weeks



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Number of exposures : 8 hours/day, 5 days/week

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

Aspiration toxicity

Not classified based on available information.

RiboErase Hybridization Oligos (HMR)

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 sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

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.



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SECTION 12. ECOLOGICAL INFORMATION

Kapa A-Tailing Buffer (10X)

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish : LC50 (Fish): > 4,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h
Test Type: static test
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

No data available

Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability : aerobic

Inoculum: activated sludge



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Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -2.31 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: no

Mobility in soil

No data available

Other adverse effects

Kapa Ligation Buffer (5X)

Ecotoxicity

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Toxicity to fish LC50 (Cyprinus carpio (Carp)): > 100 mg/l

Exposure time: 4 d

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

: > 1 mg/l

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



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1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish LC50 (Fish): > 4,000 mg/l

> Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 980 mg/l

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

Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

Toxicity Data on Soil Not expected to adsorb on soil.

Other organisms relevant to :

the environment

No data available

Persistence and degradability

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Biodegradability Biodegradation: > 90 %

Exposure time: 28 d

Method: OECD Test Guideline 301

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability aerobic

> Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d



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Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

Partition coefficient: n-

octanol/water

: Remarks: No data available

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

: log Pow: -2.31 (68 °F / 20 °C) Method: OECD Test Guideline 107

GLP: no

Mobility in soil

No data available

Other adverse effects

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:

halogens (AOX)

Adsorbed organic bound : Remarks: Not applicable

KAPA Fragment, Prime and Elute Buffer (2X)

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish LC50 (Fish): > 4,000 mg/l

> Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l



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End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

No data available

Potassium chloride (KCI):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 880 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 203 GLP: No information available.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 660 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202 GLP: No information available.

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

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

Method: OECD Test Guideline 201

GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

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

Method: OECD Test Guideline 201

GLP: yes



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Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 209

GLP: no

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

Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability : aerobic

Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Potassium chloride (KCI):

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -2.31 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: no

Potassium chloride (KCI):

Partition coefficient: n-

octanol/water

: Remarks: Not applicable



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Mobility in soilNo data available

Other adverse effects

KAPA 1st Strand Synthesis Buffer

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

KAPA 2nd Strand Marking Buffer

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish : LC50 (Fish): > 4,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h
Test Type: static test



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Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

Toxicity Data on Soil Not expected to adsorb on soil.

Other organisms relevant to : No data available

the environment

Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability aerobic

> Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -2.31 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: no

Mobility in soil

No data available

Other adverse effects

KAPA RiboErase Hybridization Buffer

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish LC50 (Fish): > 4,000 mg/l

> Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: DIN 38412

GLP: no



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aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

Toxicity Data on Soil Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability aerobic

> Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -2.31 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: no



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Mobility in soil

No data available

Other adverse effects

KAPA RiboErase Depletion Buffer

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish : LC50 (Fish): > 4,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l End point: Immobilization

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h
Test Type: static test
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

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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Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability aerobic

> Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -2.31 (68 °F / 20 °C)

Method: OECD Test Guideline 107

GLP: no

Mobility in soil

No data available

Other adverse effects

KAPA HiFi HotStart ReadyMix (2X)

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

> End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d

Test Type: static test

GLP: no



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Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.

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

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish : LC50 (Fish): > 4,000 mg/l

Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

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

Other organisms relevant to : No data available



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the environment

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

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

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

DNA-dependent DNA polymerase:

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

No data available

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no



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1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability : aerobic

Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Biodegradability : Remarks: Expected to be biodegradable

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n- : log Pow: -2.31 (68 $^{\circ}$ F / 20 $^{\circ}$ C)

octanol/water Method: OECD Test Guideline 107

GLP: no

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Partition coefficient: n- : Remarks: No data available

octanol/water

DNA-dependent DNA polymerase:

Partition coefficient: n- : Remarks: No data available

octanol/water

Mobility in soil

No data available

Other adverse effects

KAPA Script

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Exposure time: 96 h
Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.

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

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n-

octanol/water

log Pow: -1.75 (77 °F / 25 °C)

pH: 7.4

Method: OECD Test Guideline 107

GLP: no



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Mobility in soil

No data available

Other adverse effects

KAPA Library Amplification Primer Premixes (10X)

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

KAPA Hyper Prep DNA Ligase

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.



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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

Polynucleotide 5'-hydroxyl kinase:

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

No data available

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

Polynucleotide 5'-hydroxyl kinase:

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

KAPA A-Tailing Enzyme



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.

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

DNA-dependent DNA polymerase:

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 $^{\circ}$ F / 25 $^{\circ}$ C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

DNA-dependent DNA polymerase:

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

KAPA 2nd Strand Synthesis Enzyme Mix

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate



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Exposure time: 16 h
Test Type: static test

GLP: No information available.

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

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

Mobility in soil
No data available

Other adverse effects

KAPA DNase Buffer

Ecotoxicity

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Toxicity to fish : LC50 (Fish): > 4,000 mg/l

Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412



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GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 980 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 473

mg/l

End point: Growth rate Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms :

EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

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

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Biodegradability : aerobic

Inoculum: activated sludge Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n- : log Pow: -2.31 (68 °F / 20 °C)



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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octanol/water Method: OECD Test Guideline 107

GLP: no

Mobility in soilNo data available

Other adverse effects

KAPA RNase H

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l End point: mortality

Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.

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 Stranded RNA-Seq Kit with RiboErase (HMR)

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Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

Mobility in soilNo data available

Other adverse effects

KAPA DNase

Ecotoxicity

Components:

glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to algae/aquatic

plants

(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l

End point: Growth rate Exposure time: 8 d Test Type: static test

GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l



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End point: Growth rate Exposure time: 16 h Test Type: static test

GLP: No information available.

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

Persistence and degradability

Components:

glycerol:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

GLP: no

Bioaccumulative potential

Components:

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

Mobility in soil

No data available

Other adverse effects

RiboErase Hybridization Oligos (HMR)

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Mobility in soil

No data available

Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

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

IMDG-Code, ICAO/IATA-DGR

SECTION 15. REGULATORY INFORMATION

Kapa A-Tailing Buffer (10X)

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311. Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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'-(tetrahydrogen triphosphate), 2'-deoxy-

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

TECI: Not in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Kapa Ligation Buffer (5X)

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Poly(oxy-1,2- 25322-68-3 >= 30 - < 50 %

ethanediyl), .alpha.hydro-.omega.-hydroxy-

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.



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This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water 7732-18-5 Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-25322-68-3 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-77-86-1

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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KAPA Fragment, Prime and Elute Buffer (2X)

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

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



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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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA 1st Strand Synthesis Buffer

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Dactinomycin 50-76-0 Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Water 7732-18-5 Dactinomycin 50-76-0

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Dactinomycin, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients 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.

2'-Deoxyguanosine 5'-triphosphate trisodium salt

Adenosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-

Thymidine 5'-(tetrahydrogen triphosphate), sodium salt

2'-Deoxycytidine 5'-triphosphate disodium salt

Dactinomycin

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



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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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA 2nd Strand Marking Buffer

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 >= 0.1 - < 1 %



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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

Hydrochloric acid 7647-01-0 >= 0.1 - < 1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Water 7732-18-5 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- 77-86-1 Hydrochloric acid 7647-01-0

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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.

Uridine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodium

sait

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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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KAPA RiboErase Hybridization Buffer

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water 7732-18-5 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- 77-86-1 Sodium chloride (NaCl) 7647-14-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals



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The ingredients 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA RiboErase Depletion Buffer

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water 7732-18-5 Magnesium chloride hexahydrate p.a. 7791-18-6

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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KAPA HiFi HotStart ReadyMix (2X)

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 10 - < 20 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

 $\begin{array}{lll} \mbox{Hydrochloric acid} & 7647\text{-}01\text{-}0 & >= 0 \text{-} < 0.1 \% \\ \mbox{Sulfuric acid} & 7664\text{-}93\text{-}9 & >= 0 \text{-} < 0.1 \% \\ \mbox{Glycine, N,N'-1,2-} & 60\text{-}00\text{-}4 & >= 0 \text{-} < 0.1 \% \\ \end{array}$

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid7647-01-0>= 0 - < 0.1 %Sulfuric acid7664-93-9>= 0 - < 0.1 %Glycine, N,N'-1,2-60-00-4>= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

 glycerol
 56-81-5

 Hydrochloric acid
 7647-01-0

 Sulfuric acid
 7664-93-9



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Pennsylvania Right To Know

Water 7732-18-5 glycerol 56-81-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Sulfuric acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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.

2'-Deoxyguanosine 5'-triphosphate trisodium salt

Adenosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-

Thymidine 5'-(tetrahydrogen triphosphate), sodium salt

2'-Deoxycytidine 5'-triphosphate disodium salt

MAB / PAB

dUTP diphosphatase

DNA-dependent 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



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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA Script

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 50 - < 70 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5



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Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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.

Reverse Transcriptase

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

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule: Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.- 9016-45-9 hydroxy-

No substances are subject to TSCA 12(b) export notification requirements.

KAPA Library Amplification Primer Premixes (10X)

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ



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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid 7647-01-0 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Water 7732-18-5 Hydrochloric acid 7647-01-0

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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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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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA Hyper Prep DNA Ligase

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 50 - < 70 %



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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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.

Polynucleotide 5'-hydroxyl kinase

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 : 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA A-Tailing Enzyme

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

alycerol 56-81-5 >= 50 - < 70 %

Clean Water Act

117.3:

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act



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US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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.

DNA-dependent 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 : 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA 2nd Strand Synthesis Enzyme Mix



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 50 - < 70 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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.

Ribonuclease H

DNA-dependent 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA DNase Buffer

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards



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SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid 7647-01-0 >= 0.1 - < 1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid 7647-01-0 >= 0.1 - < 1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

Hydrochloric acid 7647-01-0

Pennsylvania Right To Know

Water 7732-18-5 Hydrochloric acid 7647-01-0

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA RNase H

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 50 - < 70 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Glycine, N,N'-1,2- 60-00-4 >= 0 - < 0.1 %

ethanediylbis[N-(carboxymethyl)-



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients 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 : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA DNase



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 50 - < 70 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

glycerol 56-81-5 Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

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



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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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.

Deoxyribonuclease

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: On the inventory, or in compliance with the inventory

PICCS : Not 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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

RiboErase Hybridization Oligos (HMR)

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water 7732-18-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients 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



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Kapa A-Tailing Buffer (10X)

GHS label elements

Not a hazardous substance or mixture.

Kapa Ligation Buffer (5X)

GHS label elements

Not a hazardous substance or mixture.

KAPA Fragment, Prime and Elute Buffer (2X)

GHS label elements

Not a hazardous substance or mixture.

KAPA 1st Strand Synthesis Buffer

GHS label elements

Not a hazardous substance or mixture.

KAPA 2nd Strand Marking Buffer

GHS label elements

Not a hazardous substance or mixture.

KAPA RiboErase Hybridization Buffer

GHS label elements

Not a hazardous substance or mixture.

KAPA RiboErase Depletion Buffer

GHS label elements

Not a hazardous substance or mixture.

KAPA HiFi HotStart ReadyMix (2X)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H370 Causes damage to organs.

Precautionary Statements : Prevention:

P260 Do not breathe mist or vapors.



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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P264 Wash skin thoroughly after handling.

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

Response:

P307 + P311 IF exposed: Call a POISON CENTER or doctor/

physician.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

KAPA Script

GHS label elements

Not a hazardous substance or mixture.

KAPA Library Amplification Primer Premixes (10X)

GHS label elements

Not a hazardous substance or mixture.

KAPA Hyper Prep DNA Ligase

GHS label elements

Not a hazardous substance or mixture.

KAPA A-Tailing Enzyme

GHS label elements

Not a hazardous substance or mixture.

KAPA 2nd Strand Synthesis Enzyme Mix

GHS label elements

Not a hazardous substance or mixture.

KAPA DNase Buffer

GHS label elements

Not a hazardous substance or mixture.

KAPA RNase H

GHS label elements

Not a hazardous substance or mixture.

KAPA DNase

GHS label elements

Not a hazardous substance or mixture.

RiboErase Hybridization Oligos (HMR)

GHS label elements

Not a hazardous substance or mixture.



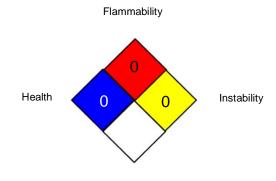
KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

SECTION 16. OTHER INFORMATION

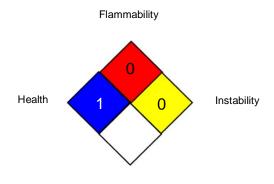
Further information

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

HMIS® IV:

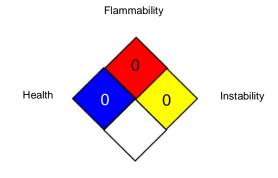
HEALTH	1	1
FLAMMABILITY		0
PHYSICAL HAZARD		0



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

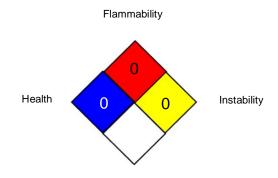
Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:



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HMIS® IV:

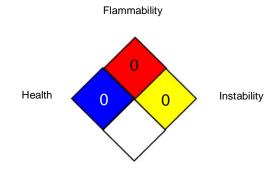




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

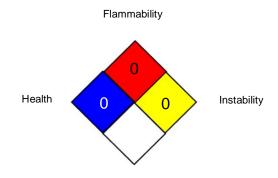
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NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:



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HMIS® IV:

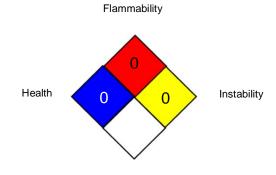




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

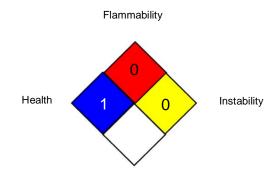
Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:



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HMIS® IV:

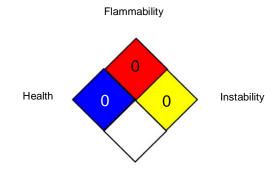




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

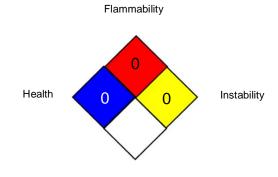
Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:



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HMIS® IV:

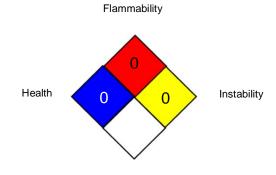




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

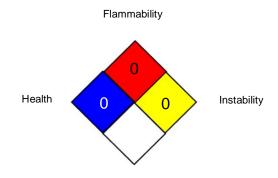
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NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:



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HMIS® IV:

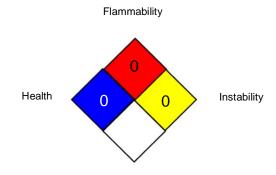




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

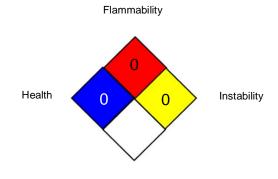
Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

HMIS® IV:

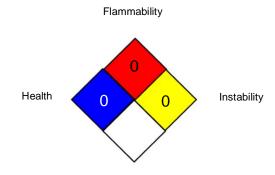




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

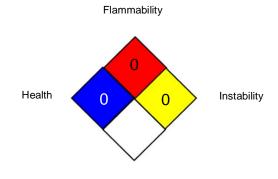
Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

NFPA 704:



Special hazard

HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

HMIS® IV:

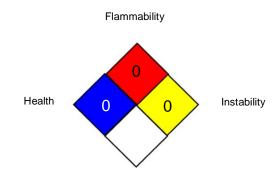




KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

Version Revision Date: Date of last issue: 10-11-2021 2.0 03-24-2022 Date of first issue: 05-18-2016

NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



KAPA Stranded RNA-Seq Kit with RiboErase (HMR)

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