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

1.1 Product identifier Trade name : KAPA Library Quantification Kit (Ion/Uni) Product code : 07960158001 1.2 Relevant identified uses of the substance or mixture and uses advised against Recommended restrictions : For professional users only. on use 1.3 Details of the supplier of the safety data sheet : Roche Diagnostics Deutschland GmbH Company Sandhoferstrasse 116 68305 Mannheim Deutschland : +496217590 Telephone Telefax : +496217592890 Responsible Department : +49(0)621-759-4223 E-mail address : info.dia-sds@roche.com **1.4 Emergency telephone number** In case of emergencies: : Central Works Security +49(0)621-759-2203 Roche Diagnostics GmbH Centre for detoxification: +49(0)6131-19240 5 Mainz Munich +49(0)89-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)





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Hazard statements	:	H371 May cause damage to organs.
Precautionary statements	:	Prevention:
		P260 Do not breathe mist or vapours.
		P264 Wash skin thoroughly after handling.
		P270 Do not eat, drink or smoke when using this product.
		Response:
		P308 + P311 IF exposed or concerned: Call a POISON
		CENTER/ doctor.
		Storage:
		P405 Store locked up.
		Disposal:
		P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

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

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

SECTION 3: Composition/information on ingredients

2x SYBR Fast Universal MM

Classification (REGULATION (EC) No 1272/2008)

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

Components

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



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	mg/kg Acute dermal toxicity: 200,02 mg/kg	
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For explanation of abbreviations see section 16.

KAPA SYBR Fast ROX High

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components Remarks

: No hazardous ingredients

For explanation of abbreviations see section 16.

KAPA SYBR® Fast ROX Low (50X)

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks	: No hazardous ingredients
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For explanation of abbreviations see section 16.

KAPA Library Quantification DNA Standards 0-6

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks No hazardous ingredients :

For explanation of abbreviations see section 16.

KAPA Library Quantification Primer Premix (10X)

Classification (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid mea	asures
General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	 Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	 Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Rinse mouth with water.
	and effects, both acute and delayed
None known.	
-	e medical attention and special treatment needed
	. The first aid presedure should be established in several testion

Treatment	:	The first aid procedure should be established in consultation
		with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	: No information available.
fighting	



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5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

on i oloonal productiono, protoo	are equipment and emergency procedured
Personal precautions	: Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).
		Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep container tightly closed in a dry and well-ventilated
areas and containers		place. Observe label precautions. Electrical installations /

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			working materials must comply with the technological safety standards.
	Further information on stor- age conditions	:	See label, package insert or internal guidelines
	Storage class (TRGS 510)	:	12, Non Combustible Liquids
	Further information on stor- age stability	:	No decomposition if stored and applied as directed.
7.3	Specific end use(s)		

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7.3 Specific end use(s)

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Specific use(s)	:	Laboratory chemicals
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

2x SYBR Fast Universal MM

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
glycerol	56-81-5	AGW (Inhalable fraction)	200 mg/m3	DE TRGS 900	
	Peak-limit: ex	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
dimethyl sulfoxide	67-68-5	AGW 50 ppm DE TRGS 160 mg/m3 900			
	Peak-limit: excursion factor (category): 2;(I)				
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, harm to the unborn child can not be excluded				

KAPA SYBR Fast ROX High

Contains no substances with occupational exposure limit values.

KAPA SYBR® Fast ROX Low (50X)

Contains no substances with occupational exposure limit values.

KAPA Library Quantification DNA Standards 0-6

Contains no substances with occupational exposure limit values.

KAPA Library Quantification Primer Premix (10X)

Contains no substances with occupational exposure limit values.



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8.2 Exposure controls

Engineering measures		
No data available		
Personal protective equipme	ent	
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
		Use eye protection according to EN 166.
Hand protection		In case of contact through splashing:
Material	:	Nitrile rubber
Break through time	:	> 30 min
Glove thickness	:	> 0,11 mm
Martal		In case of full contact:
Material Break through time	:	butyl-rubber > 480 min
Glove thickness	:	> 0,4 mm
Remarks	:	The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place.
Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

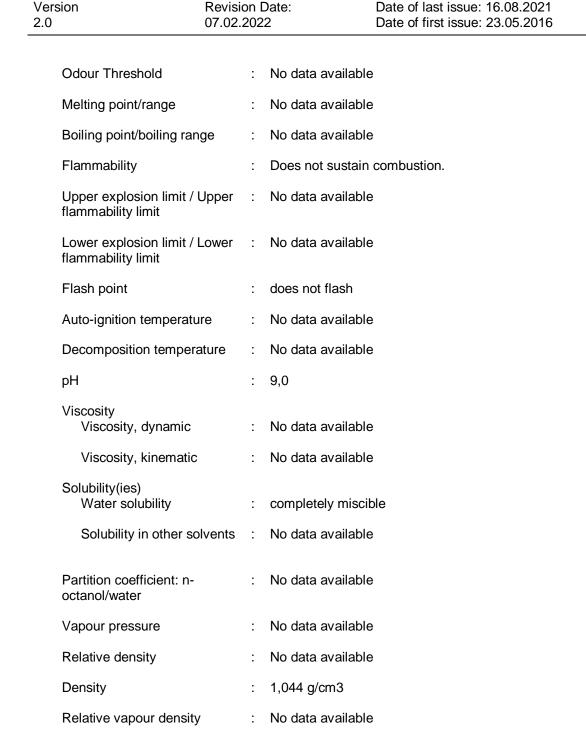
9.1 Information on basic physical and chemical properties

2x SYBR Fast Universal MM

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 KAPA Library Quantification Kit (Ion/Uni)

Roche



KAPA SYBR Fast ROX High

Physical state	:	liquid
Colour	:	pink
Odour	:	odourless
Odour Threshold	:	No data available

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	Melting point/range	:	No data available
	Boiling point/boiling range	:	No data available
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Flash point		does not flash
	Auto-ignition temperature	:	No data available
	Decomposition temperature	:	No data available
	рН	:	6,5
	Viscosity Viscosity, dynamic	:	No data available
	Viscosity, kinematic	:	No data available
	Solubility(ies) Water solubility	:	completely miscible
	Solubility in other solvents	:	No data available
	Partition coefficient: n- octanol/water	:	No data available
	Vapour pressure	:	No data available
	Relative density	:	No data available
	Density	:	0,998 g/cm3
	Relative vapour density	:	No data available

KAPA SYBR® Fast ROX Low (50X)

Physical state	:	liquid
Colour	:	violet
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available





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Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		does not flash
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	8,1
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,997 g/cm3
Relative vapour density	:	No data available

KAPA Library Quantification DNA Standards 0-6

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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flammability limit

Flash point		does not flash
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	7,7
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,996 g/cm3
Relative vapour density	:	No data available

KAPA Library Quantification Primer Premix (10X)

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		does not flash

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Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	7,7
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,996 g/cm3
Relative vapour density	:	No data available

9.2 Other information 2x SYBR Fast Universal MM

Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

KAPA SYBR Fast ROX High

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
		The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available



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KAPA SYBR® Fast ROX Low (50X)

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

KAPA Library Quantification DNA Standards 0-6

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
		The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

KAPA Library Quantification Primer Premix (10X)

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
		The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.



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10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
		No decomposition if stored and applied as directed.
10.4 Conditions to avoid Conditions to avoid	:	Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents
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10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 *2x SYBR Fast Universal MM*

Acute toxicity

Not classified based on available information.

Components:

tetramethylammonium chloride:

Acute oral toxicity	:	LD50 Oral (Rat): 47 mg/kg Method: OECD Test Guideline 401 GLP: no
		Acute toxicity estimate: 47 mg/kg Method: Calculation method
Acute dermal toxicity		LD50 Dermal (Rabbit): > 200 - < 500 mg/kg Method: OECD Test Guideline 402 GLP: yes
		Acute toxicity estimate: 200,02 mg/kg Method: Calculation method

Skin corrosion/irritation

Not classified based on available information.

Components:

tetramethylammonium chloride:

Result : Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.



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Components:

tetramethylammonium chloride:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

tetramethylammonium chloride:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

tetramethylammonium chloride:

Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Result: negative
		Test Type: Microbial mutagenesis assay (Ames test) Test system: Escherichia coli Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause damage to organs.

Components:

tetramethylammonium chloride:

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



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STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

tetramethylammonium chloride:

Species	:	Rat
NOAEL	:	5 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 421
GLP	:	yes

Aspiration toxicity

Not classified based on available information. *KAPA SYBR Fast ROX High*

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information. KAPA SYBR® Fast ROX Low (50X)

Acute toxicity

Not classified based on available information.



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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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 Library Quantification DNA Standards 0-6

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eve damage/eve irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.



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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 Library Quantification Primer Premix (10X)

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

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

2x SYBR Fast Universal MM



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Endocrine disrupting properties

Product:

Assessment

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

Further information

Components:

tetramethylammonium chloride:

Remarks

: Other dangerous properties can not be excluded.

KAPA SYBR Fast ROX High

Endocrine disrupting properties

Product:

Assessment

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

KAPA SYBR® Fast ROX Low (50X)

Endocrine disrupting properties

Produc	:t:

Assessment

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

KAPA Library Quantification DNA Standards 0-6

Endocrine disrupting properties

Product:

Assessment

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

KAPA Library Quantification Primer Premix (10X)

Endocrine disrupting properties

Product:



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

SECTION 12: Ecological information

12.1 Toxicity

2x SYBR Fast Universal MM

Components:

tetramethylammonium chloride:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 462 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,16 mg/l Exposure time: 11 d GLP: yes
		NOEC (Daphnia magna (Water flea)): 0,03 mg/l Exposure time: 11 d GLP: yes
		LC50 (Daphnia magna (Water flea)): 1,86 mg/l Exposure time: 48 h GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 115 mg/l 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	:	No data available

KAPA SYBR Fast ROX High

the environment

No data available KAPA SYBR® Fast ROX Low (50X)

No data available KAPA Library Quantification DNA Standards 0-6



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No data available

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KAPA Library Quantification Primer Premix (10X)

No data available

12.2 Persistence and degradability

2x SYBR Fast Universal MM

Components:

tetramethylammonium chloride: Biodegradability : Remarks: Expected to be biodegradable

KAPA SYBR Fast ROX High

No data available KAPA SYBR® Fast ROX Low (50X)

No data available KAPA Library Quantification DNA Standards 0-6

No data available

KAPA Library Quantification Primer Premix (10X)

No data available

12.3 Bioaccumulative potential

2x SYBR Fast Universal MM

Components:

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

KAPA SYBR Fast ROX High

No data available KAPA SYBR® Fast ROX Low (50X)

No data available KAPA Library Quantification DNA Standards 0-6

No data available KAPA Library Quantification Primer Premix (10X)

No data available

12.4 Mobility in soil

2x SYBR Fast Universal MM

No data available KAPA SYBR Fast ROX High

No data available KAPA SYBR® Fast ROX Low (50X)

No data available



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KAPA Library Quantification DNA Standards 0-6

No data available

KAPA Library Quantification Primer Premix (10X)

No data available

12.5 Results of PBT and vPvB assessment

2x SYBR Fast Universal MM

Not relevant

KAPA SYBR Fast ROX High

Not relevant

KAPA SYBR® Fast ROX Low (50X)

Not relevant

KAPA Library Quantification DNA Standards 0-6

Not relevant

KAPA Library Quantification Primer Premix (10X)

Not relevant

12.6 Endocrine disrupting properties

Product:

Assessment

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

2x SYBR Fast Universal MM

Product:

Assessment

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

KAPA SYBR Fast ROX High

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

KAPA SYBR® Fast ROX Low (50X)

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

KAPA Library Quantification Primer Premix (10X)

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

12.7 Other adverse effects 2x SYBR Fast Universal MM

No data available KAPA SYBR Fast ROX High

No data available KAPA SYBR® Fast ROX Low (50X)

No data available KAPA Library Quantification DNA Standards 0-6

No data available KAPA Library Quantification Primer Premix (10X)

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company. Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good



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14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable

SECTION 15: Regulatory information

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

Seveso III: Directive Not applicable 1 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

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

2x SYBR Fast Universal MM

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable



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REACH - List of substances subject to authorisation : Not applicable (Annex XIV)

Other regulations:

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

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

The components of this product are reported in the following inventories:					
AIIC	:	Not in compliance with the inventory			
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.			
		Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodi- um salt 2'-deoxyadenosine 5'-(tetrahydrogen triphosphate) Thymidine 5'-(tetrahydrogen triphosphate), sodium salt 2'-Deoxycytidine 5'-triphosphate disodium salt SYBR Green I nucleic acid gel stain			
NZIoC	:	Not in compliance with the inventory			
ENCS	:	Not in compliance with the inventory			
ISHL	:	Not in compliance with the inventory			
KECI	:	Not in compliance with the inventory			
PICCS	:	Not in compliance with the inventory			
IECSC	:	Not in compliance with the inventory			
TCSI	:	Not in compliance with the inventory			
TSCA	:	Product contains substance(s) not listed on TSCA inventory.			
TECI	:	Not in compliance with the inventory			
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 8,02 %			

Labelling (REGULATION (EC) No 1272/2008)



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:	
:	Warning
:	H371 May cause damage to organs.
:	Prevention:
	P260 Do not breathe mist or vapours.P264 Wash skin thoroughly after handling.P270 Do not eat, drink or smoke when using this product.
	Response:
	P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
	Storage:
	P405 Store locked up.
	Disposal:
	P501 Dispose of contents/ container to an approved waste disposal plant.
	: : :

Hazardous components which must be listed on the label:

75-57-0 tetramethylammonium chloride	75-57-0	tetramethylammonium chloride
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KAPA SYBR Fast ROX High

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable



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Other regulations:

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

The components of this product are reported in the following inventories:					
AIIC	:	Not in compliance with the inventory			
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.			
		6-Carboxy-X-rhodamine			
NZIoC	:	On the inventory, or in compliance with the inventory			
ENCS	:	Not in compliance with the inventory			
ISHL	:	Not in compliance with the inventory			
KECI	:	Not in compliance with the inventory			
PICCS	:	Not in compliance with the inventory			
IECSC	:	Not in compliance with the inventory			
TCSI	:	Not in compliance with the inventory			
TSCA	:	Product contains substance(s) not listed on TSCA inventory.			
TECI	:	Not in compliance with the inventory			
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,3 %			

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

KAPA SYBR® Fast ROX Low (50X)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable

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07.02.2022



Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

Version

2.0

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

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The components of this product are reported in the following inventories: AIIC : Not in compliance with the inventory DSL This product contains the following components that are not on the Canadian DSL nor NDSL. 6-Carboxy-X-rhodamine Nucleotidyltransferase, deoxyribonucleate NZIoC On the inventory, or in compliance with the inventory : ENCS : Not in compliance with the inventory **ISHL** : Not in compliance with the inventory KECI Not in compliance with the inventory : PICCS Not in compliance with the inventory : IECSC Not in compliance with the inventory TCSI Not in compliance with the inventory : TSCA : Product contains substance(s) not listed on TSCA inventory. TECI Not in compliance with the inventory : Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,04 %

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



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KAPA Library Quantification DNA Standards 0-6

REACH - Restrictions on the manufacture, placing on : Not applicable the market and use of certain dangerous substances, preparations and articles (Annex XVII)					
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).				
Regulation (EC) No 1005/200 plete the ozone layer)9 o	n substances that de- : Not applicable			
Regulation (EU) 2019/1021 o tants (recast)	n pe	ersistent organic pollu- : Not applicable			
Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals					
REACH - List of substances s (Annex XIV)	subj	ect to authorisation : Not applicable			
The components of this pro	oduo	ct 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	CCS : Not in compliance with the inventory				
IECSC	ECSC : Not in compliance with the inventory				
TCSI	:	: Not in compliance with the inventory			
TSCA	:	Product contains substance(s) not listed on TSCA inventory.			
TECI	:	Not in compliance with the inventory			
Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,05 %					



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Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

NZIoC

KAPA Library Quantification Primer Premix (10X)

REACH - Restrictions on the mar the market and use of certain dar preparations and articles (Annex	ngerous substances,	:	Not applicable
REACH - Candidate List of Subst Concern for Authorisation (Article	- Candidate List of Substances of Very High for Authorisation (Article 59).		Not applicable
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de-	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)			Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals			Not applicable
REACH - List of substances subject to authorisation (Annex XIV)			Not applicable
The components of this produc	ct are reported in the fo	ollo	wing inventories:
AIIC : Not in compliance with the inventory			
DSL : This product contains the following components that are r on the Canadian DSL nor NDSL.			0

Primer / Oligonucleotide / Probe

:	On the inventory.	or in compliance	with the inventory
•	on the inventory,	or in compliance	

ENCS : N	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 : Not in compliance with the inventory
- TSCA : Product contains substance(s) not listed on TSCA inventory.



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TECI	:	Not in compliance with the inventory
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

H300 : Fatal if swallowed	l.
H311 : Toxic in contact w	<i>r</i> ith skin.
H315 : Causes skin irritat	tion.
H370 : Causes damage t	o organs.
H411 : Toxic to aquatic li	fe with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 KAPA Library Quantification Kit (Ion/Uni)



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

Further information

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

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