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

Roch

1.1	Product identifier Trade name	:	Transcriptor cDNA Synth. Kit	200 react.
	Product code	:	04897030001	
1.2	Relevant identified uses of tl	he s	ubstance or mixture and use	es advised against
	Recommended restrictions on use	:	For use in research only	
1.3	Details of the supplier of the	saf	ety data sheet	
	Company	:	Roche Diagnostics Deutschla	and GmbH
			Sandhoferstrasse 116 68305 Mannheim Deutschland	
	Telephone		+496217590	
	Telefax Responsible Department E-mail address	:	+496217592890 +49(0)621-759-4223 info.dia-sds@roche.com	+49(0)8856-60-7547
1.4	Emergency telephone numb	er		
	In case of emergencies:	:	Central Works Security Roche Diagnostics GmbH	+49(0)621-759-2203
	Centre for detoxification:	:	Mainz Munich	+49(0)6131-19240 +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)

Not a hazardous substance or mixture.

2.3 Other hazards

See SECTION 3

SECTION 3: Composition/information on ingredients

Transcriptor Reverse Transcriptase



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Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

oomponenta			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Nucleotidyltransferase, deoxyri-	9068-38-6		>= 0,1 - < 1,0
bonucleate, RNA-dependent	232-964-5		
REACH - Candidate List of Substan	nces of Very High Conce	ern for Authorisation (Art	icle 59). :
alpha-(4-(1,1,3,3-	9002-93-1	Acute Tox. 4; H302	>= 0,1 - < 0,25
Tetramethylbutyl)phenyl)-omega-		Eye Dam. 1; H318	
hydroxypoly(oxy-1,2-ethanediyl)		Aquatic Chronic 2;	
		H411	
		Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
		500 mg/kg	

For explanation of abbreviations see section 16.

Reaction Buffer, 5x concentrated

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks

: No hazardous ingredients

For explanation of abbreviations see section 16.

RNase Inhibitor

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

Desoxynucleotide Mix

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.

Anchored-oligo(dT)18 Primer

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components Remarks

: No hazardous ingredients

For explanation of abbreviations see section 16.

Random Hexamer Primer

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

Water

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	:	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 on skin, rinse well with water.		
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.		



Version **Revision Date:** Date of last issue: 05.08.2021 14.08.2021 Date of first issue: 05.10.2012 1.17 If eye irritation persists, consult a specialist. If swallowed 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. Rinse mouth with water. 4.2 Most important symptoms and effects, both acute and delayed : No information available. Symptoms 4.3 Indication of any immediate medical attention and special treatment needed Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-: No information available. fighting 5.3 Advice for firefighters Special protective equipment : Wear self-contained breathing apparatus for firefighting if necfor firefighters essary. Further information Standard procedure for chemical fires. 5 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. **SECTION 6: Accidental release measures**

• •		equipment and emergency procedures Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions Environmental precautions :	:	Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for conta Methods for cleaning up :	aiı :	ment and cleaning up Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



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6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1	7.1 Precautions for safe handling						
	Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area.				
	Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.				
	Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.				
7.2	Conditions for safe storage, i	incl	uding any incompatibilities				
	Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.				
	Further information on stor- age conditions	:	See label, package insert or internal guidelines				
	Advice on common storage	:	No materials to be especially mentioned.				
	Storage class (TRGS 510)	:	12, Non Combustible Liquids				
	Further information on stor- age stability	:	No decomposition if stored and applied as directed.				
7.3	Specific end use(s)						
	Specific use(s)	:	This product contains a substance on REACH Annex XIV (substance of very high concern due to endocrine disrupting properties for the environment) at or above 0.1% w/w and may only be used under the exemption from authorisation for scientific research and development (including analytical activities, quality control and In-Vitro Diagnostics) under controlled conditions. Only trained and authorised personnel is allowed				

to handle the substance.

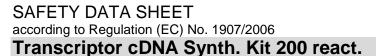
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Transcriptor Reverse Transcriptase

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					
Nucleotidyltrans- ferase, deoxyribo- nucleate, RNA- dependent	9068-38-6	IOEL	0,00006 mg/m3	Roche Indus- trial Hygiene Committee (RIHC)			

Koc

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
dipotassium hy- drogenorthophos- phate	Workers	Inhalation	Long-term systemic effects	4,07 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3,04 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
dipotassium hydrogenorthophos-	Fresh water	0,05 mg/l
phate		
	Marine water	0,005 mg/l
	Intermittent use/release	0,5 mg/l
	Sewage treatment plant	100 mg/l

Reaction Buffer, 5x concentrated

Contains no substances with occupational exposure limit values.

RNase Inhibitor

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
glycerol	56-81-5	AGW (Inhalable fraction)	200 mg/m3	DE TRGS 900		
	Peak-limit: excursion factor (category): 2;(I)					
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

Desoxynucleotide Mix

Contains no substances with occupational exposure limit values.

Anchored-oligo(dT)18 Primer

Contains no substances with occupational exposure limit values.

Random Hexamer Primer

Contains no substances with occupational exposure limit values.

Water

Contains no substances wit	h occupational exposure limit values.
2 Exposure controls	
Engineering measures No data available	
Personal protective equip	ment
Eye protection	: Safety glasses
	Use eye protection according to EN 166.
Hand protection	
Material	In case of contact through splashing: Nitrile rubber
Break through time	$\sim 30 \text{ min}$
Glove thickness	: > 0,11 mm
	In case of full contact:
Material	: butyl-rubber
Break through time	: > 480 min
Glove thickness	: > 0,4 mm
Remarks	: The selected protective gloves have to satisfy the specific tions of Regulation (EU) 2016/425 and the standard EN 3 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided us and for the application specified by us. Please observe instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also tak 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 workpla should be discussed with the producers of the protective gloves.
Skin and body protection	: Protective suit
Respiratory protection	: No personal respiratory protective equipment normally re quired.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Transcriptor Reverse Transcriptase

Physical state	:	liquid
Colour	:	clear, colourless
Odour	:	none
Odour Threshold	:	No data available



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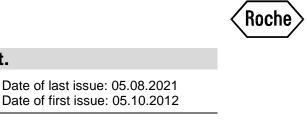
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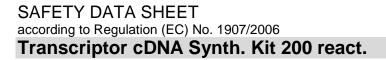
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Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	does not flash
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	7,2
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
Relative vapour density	:	No data available

Reaction Buffer, 5x concentrated

Physical state	:	liquid
Colour	:	colourless
Odour	:	none
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable., Does not sustain combustion.
Upper explosion limit / Upper	:	No data available



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flammability limit			
Lower explosion limit flammability limit	/Lower :	No data availat	ble
Flash point	:	No data availat	ble
Auto-ignition tempera	ature :	No data availat	ble
Decomposition tempe	erature :	No data availat	ble
рН	:	8,5 (25 °C)	
Viscosity Viscosity, dynamic	c :	No data availat	ble
Viscosity, kinemat	tic :	No data availat	ble
Solubility(ies) Water solubility	:	completely mis	cible
Solubility in other	solvents :	No data availat	ble
Partition coefficient: r octanol/water	ז- :	No data availat	ble
Vapour pressure	:	No data availat	ble
Relative density	:	No data availat	ble
Relative vapour dens	ity :	No data availat	ble

RNase Inhibitor

Version

Physical state	:	liquid
Colour	:	colourless
Odour	:	very faint
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 terr	perature :	No data available	9
Decomposition to	emperature :	No data available)
рН	:	7,6 (4 °C)	
Viscosity Viscosity, dyr	namic :	No data available	9
Viscosity, kind	ematic :	No data available)
Solubility(ies) Water solubili	ity :	completely miscil	ble
Solubility in o	ther solvents :	No data available)
Partition coefficie octanol/water	ent: n- :	No data available	2
Vapour pressure) :	No data available)
Relative density	:	No data available)
Density	:	1,13 - 1,16 g/cm3	3 (20 - 25 °C, 990 - 1.030 hPa)
Relative vapour	density :	No data available	

Desoxynucleotide Mix

Physical state	:	liquid
Colour	:	colourless
Odour	:	none
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable., Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available



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рН	:	No data available	9
Viscosity Viscosity, dynamic	c :	No data available	9
Viscosity, kinemat	tic :	No data available	9
Solubility(ies) Water solubility	:	completely miscil	ble
Solubility in other	solvents :	No data available	9
Partition coefficient: r)- :	No data available	9
Vapour pressure	:	No data available	9
Relative density	:	No data available	9
Relative vapour dens	ity :	No data available	9

Anchored-oligo(dT)18 Primer

Physical state	:	liquid	
Colour	:	colourless	
Odour	:	none	
Odour Threshold	:	No data available	
Melting point/range	:	No data available	
Boiling point/boiling range	:	No data available	
Flammability	:	The product is not flammable., Does not sustain combustion.	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Flash point	:	No data available	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	No data available	
Viscosity Viscosity, dynamic	:	No data available	

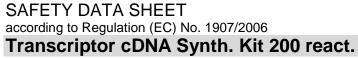


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Viscosity, kiner	matic	:	No data available	e
Solubility(ies) Water solubility	/	:	completely misci	ble
Solubility in oth	er solvents	:	No data available	e
Partition coefficier octanol/water	nt: n-	:	No data available	e

Vapour pressure	:	No data available
Relative density	:	No data available
Relative vapour density	:	No data available

Random Hexamer Primer

Physical state	:	liquid
Colour	:	colourless
Odour	:	none
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable., Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible





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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
Relative vapour density	:	No data available

Water

Physical state	:	liquid
Colour	:	colourless, clear

Odour	:	odourless
Odour Threshold	:	No data available
Melting point/freezing point	:	0,0 °C
Boiling point/boiling range	:	99,97 °C (1.013 hPa)
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	7,0
Viscosity Viscosity, dynamic	:	0,998 mPa.s (20 °C) 0,285 mPa.s (99,97 °C)
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	(20 °C) Solvent: Ethanol Description: completely miscible



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Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	0,61 hPa (0 °C)
		1.013 hPa (99,97 °C)
Relative density	:	No data available
Density	:	1,000 g/cm3 (20 °C)
Relative vapour density	:	No data available

9.2 Other information *Transcriptor Reverse Transcriptase*

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

Reaction Buffer, 5x concentrated

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

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





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Flammability (liquids)	: The product	is not flammable.
	Does not su	stain combustion.
Self-ignition	: No data ava	ilable
Evaporation rate	: No data ava	ilable
Desoxynucleotide Mi	ix i	
Explosives	: Not explosiv	e
Oxidizing properties	: The substar	ce or mixture is not classified as oxidizing.
Flammability (liquids)	: Does not su	stain combustion.
Self-ignition	: No data ava	ilable
Evaporation rate	: No data ava	ilable
Miscibility with water	: No data ava	ilable

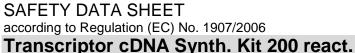
Anchored-oligo(dT)18 Primer

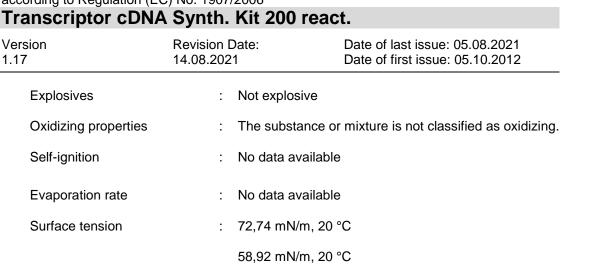
Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
Evaporation rate	:	No data available
Miscibility with water	:	No data available

Random Hexamer Primer

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

Water





Koci

Molecular weight : 18,02 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

1.17

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
		Stable under recommended storage conditions. No hazards to be specially mentioned.
10.4 Conditions to avoid Conditions to avoid	:	No data available
10.5 Incompatible materials Materials to avoid	:	No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Transcriptor Reverse Transcriptase

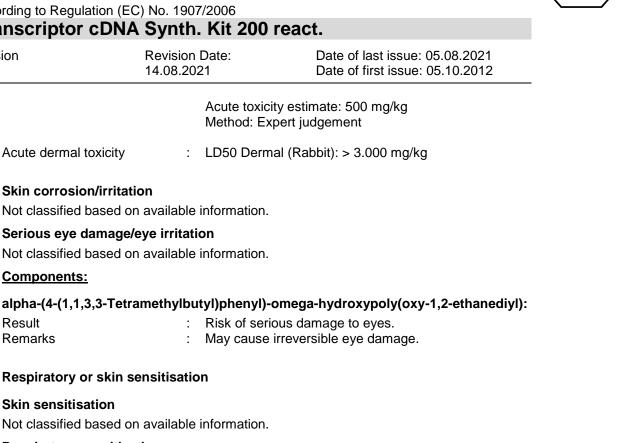
Acute toxicity

Not classified based on available information.

Components:

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):

Acute oral toxicity : LD50 Oral (Rat): 1.900 - 5.000 mg/kg



Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Result

Remarks

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Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate, RNA-dependent:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

Nucleotidyltransferase, deoxyribonucleate, RNA-dependent:

Assessment The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity



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Components:

Nucleotidyltransferase, deoxyribonucleate, RNA-dependent: No data available

Reaction Buffer, 5x concentrated

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. **RNase Inhibitor**

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



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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information. Desoxynucleotide Mix

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. Anchored-oligo(dT)18 Primer

Acute toxicity



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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure Not classified based on available information.

STOT - repeated exposure Not classified based on available information.

Aspiration toxicity

Not classified based on available information. Random Hexamer Primer

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



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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. Water

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 Transcriptor Reverse Transcriptase

Endocrine disrupting properties No data available Reaction Buffer, 5x concentrated

Endocrine disrupting properties No data available **RNase Inhibitor**



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Endocrine disrupting properties No data available Desoxynucleotide Mix

Endocrine disrupting properties No data available Anchored-oligo(dT)18 Primer

Endocrine disrupting properties No data available Random Hexamer Primer

> Endocrine disrupting properties No data available

Water

Endocrine disrupting properties No data available

SECTION 12: Ecological information

12.1 Toxicity

Transcriptor Reverse Transcriptase

Components:

the environment

Nucleotidyltransferase, deoxyribonucleate, RNA-dependent:

Ecotoxicology Assessment		
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to	:	No data available

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4 - 8,9 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l Exposure time: 48 h
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

Reaction Buffer, 5x concentrated



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No data available **RNase Inhibitor**

No data available Desoxynucleotide Mix

No data available Anchored-oligo(dT)18 Primer

No data available Random Hexamer Primer

No data available

Water

No data available

12.2 Persistence and degradability

Transcriptor Reverse Transcriptase

Components:

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):

:

Biodegradability

Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

Reaction Buffer, 5x concentrated

No data available **RNase Inhibitor**

No data available Desoxynucleotide Mix

No data available Anchored-oligo(dT)18 Primer

No data available

Random Hexamer Primer

No data available

Water

No data available

12.3 Bioaccumulative potential Transcriptor Reverse Transcriptase

Components:

Nucleotidyltransferase, deoxyribonucleate, RNA-dependent:

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

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):



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Bioaccumulation	: Remarks: N 4).	lo bioaccumulation is to be expected (log Pow
Partition coefficient: n- octanol/water	: Remarks: N	lo data available
Reaction Buffer, 5x co	oncentrated	
No data available RNase Inhibitor		
No data available Desoxynucleotide Mi x	¢	
No data available Anchored-oligo(dT)18	8 Primer	
No data available Random Hexamer Pri	mer	
No data available Water		
No data available		
12.4 Mobility in soil	_ .,	
Transcriptor Reverse	Transcriptase	
No data available Reaction Buffer, 5x co	oncentrated	
No data available RNase Inhibitor		
No data available Desoxynucleotide Mix	¢	
No data available Anchored-oligo(dT)18	8 Primer	
No data available Random Hexamer Pri	mer	
No data available Water		
No data available		
12.5 Results of PBT and v		
Transcriptor Reverse	Transcriptase	
Not relevant Reaction Buffer, 5x co	oncentrated	
Not relevant RNase Inhibitor		
Not relevant Desoxynucleotide Mix	¢	



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Anchored-oligo(dT)18 Primer

Not relevant

Random Hexamer Primer

Not relevant Water

Not relevant

12.6 Endocrine disrupting properties Transcriptor Reverse Transcriptase

Components:

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):

:

Assessment

The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

Reaction Buffer, 5x concentrated

RNase Inhibitor

Desoxynucleotide Mix

Anchored-oligo(dT)18 Primer

Random Hexamer Primer

Water

12.7 Other adverse effects Transcriptor Reverse Transcriptase

No data available Reaction Buffer, 5x concentrated

No data available **RNase Inhibitor**

No data available Desoxynucleotide Mix

No data available Anchored-oligo(dT)18 Primer

No data available Random Hexamer Primer

No data available

Water

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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Product	or above 0.1%	contains a substance on REACH Annex XIV at 6 w/w. Cartridges / rests of product to be dis- it was hazardous waste.
	courses or the Do not contar cal or used co	ninate ponds, waterways or ditches with chemi-
Contaminated packagir	dling site for r	ners should be taken to an approved waste han- recycling or disposal. e empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

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

Koc

14.7 Maritime transport in bulk according to IMO instruments

2

Remarks	:	Not applicable
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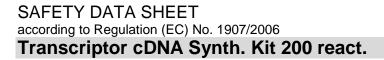
SECTION 15: Regulatory information

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

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

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

Transcriptor Reverse Transcriptase





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	se of certain da	nufacture, placing ngerous substance x XVII)		Not applicable
REACH - Candida Concern for Autho		tances of Very Hig e 59).	jh :	alpha-(4-(1,1,3,3- Tetramethylbutyl)phenyl)-omega hydroxypoly(oxy-1,2-ethanediyl)
REACH - List of s (Annex XIV)	substances sub	ject to authorisatio	n :	alpha-(4-(1,1,3,3- Tetramethylbutyl)phenyl)-omega hydroxypoly(oxy-1,2-ethanediyl) For customers in the European E nomic Area:, Contains SVHC:, o tyl/nonylphenol ethoxylates., For in research and under controlled conditions only, – acc. to Art. 56 and 3.23 REACH Regulation.
Regulation (EC) N plete the ozone la		on substances that	de- :	Not applicable
Regulation (EU) 2 tants (recast)	2019/1021 on p	ersistent organic p	ollu- :	Not applicable
	uncil concerning	the European Par g the export and im		Not applicable
-	s of this produ	-		wing inventories:
The components AIIC	s of this produ :	ict are reported in Not in compliance		-
-	s of this produ : :	Not in compliant	ce with the	e inventory following components that are not
AIIC	s of this produ : :	Not in compliand This product cor on the Canadiar	ce with the ntains the n DSL nor	e inventory following components that are not
AIIC	s of this produ : :	Not in compliance This product cor on the Canadiar Nucleotidyltrans	ce with the ntains the n DSL nor ferase, de	e inventory following components that are not NDSL.
AIIC DSL	s of this produ : : :	Not in compliance This product cor on the Canadiar Nucleotidyltrans	ce with the ntains the n DSL nor ferase, de v, or in cor	e inventory following components that are not NDSL. eoxyribonucleate, RNA-dependent mpliance with the inventory
AIIC DSL NZIoC	s of this produ : : : :	Not in compliance This product corr on the Canadiar Nucleotidyltrans On the inventory	ce with the ntains the n DSL nor ferase, de /, or in cor ce with the	e inventory following components that are not NDSL. coxyribonucleate, RNA-dependent mpliance with the inventory e inventory
AIIC DSL NZIOC ENCS	s of this produ : : : : : :	Not in compliance This product corr on the Canadian Nucleotidyltrans On the inventory Not in compliance	ce with the ntains the DSL nor ferase, de v, or in cor ce with the ce with the	e inventory following components that are not NDSL. coxyribonucleate, RNA-dependent mpliance with the inventory e inventory
AIIC DSL NZIOC ENCS ISHL	s of this produ : : : : : : :	Not in compliance This product corr on the Canadian Nucleotidyltrans On the inventory Not in compliance Not in compliance	ce with the ntains the n DSL nor ferase, de v, or in cor ce with the ce with the ce with the	e inventory following components that are not NDSL. eoxyribonucleate, RNA-dependent mpliance with the inventory e inventory e inventory e inventory
AIIC DSL NZIOC ENCS ISHL KECI	s of this produ : : : : : : : : : : : : :	Not in compliance This product corr on the Canadian Nucleotidyltrans On the inventory Not in compliance Not in compliance	ce with the ntains the n DSL nor ferase, de v, or in cor ce with the ce with the ce with the ce with the	e inventory following components that are not NDSL. eoxyribonucleate, RNA-dependent mpliance with the inventory e inventory e inventory e inventory e inventory
AIIC DSL NZIOC ENCS ISHL KECI PICCS	s of this produ : : : : : : : : : : :	Not in compliance This product corr on the Canadian Nucleotidyltrans On the inventory Not in compliance Not in compliance Not in compliance Not in compliance	ce with the ntains the n DSL nor ferase, de v, or in cor ce with the ce with the ce with the ce with the ce with the	e inventory following components that are not NDSL. eoxyribonucleate, RNA-dependent mpliance with the inventory e inventory e inventory e inventory e inventory
AIIC DSL NZIOC ENCS ISHL KECI PICCS IECSC	s of this produ : : : : : : : : : : : : : : : : : : :	Not in compliance This product corr on the Canadian Nucleotidyltrans On the inventory Not in compliance Not in compliance Not in compliance Not in compliance Not in compliance Not in compliance	ce with the ntains the n DSL nor ferase, de v, or in cor ce with the ce with the ce with the ce with the ce with the ce with the	e inventory following components that are not NDSL. eoxyribonucleate, RNA-dependent mpliance with the inventory e inventory e inventory e inventory e inventory e inventory e inventory



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Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Reaction Buffer, 5x concentrated

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
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable

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



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Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

RNase Inhibitor

Version

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

AIIC	:	Not in compliance with the inventory	
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.	
		RNase Inhibitor	
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.	
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable	



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	EGULATION (EC) No 1272/2008) ous substance or mixture.	1				
Desoxynu	cleotide Mix					
the market a	strictions on the manufacture, plac nd use of certain dangerous substa and articles (Annex XVII)		Not applicable			
	ndidate List of Substances of Very Authorisation (Article 59).	High :	Not applicable			
REACH - Lis (Annex XIV)	t of substances subject to authorise	ation :	Not applicable			
Regulation (E plete the ozo	EC) No 1005/2009 on substances t ne layer	that de- :	Not applicable			
Regulation (E tants (recast)	EU) 2019/1021 on persistent organ	ic pollu- :	Not applicable			
	EC) No 649/2012 of the European Council concerning the export and chemicals		Not applicable			

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 thymidine 5'-(trisodium hydrogen triphosphate) 2'-deoxyadenosine 5'-(disodium dihydrogen triphosphate) 2'-Deoxycytidine 5'-triphosphate disodium salt
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial

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emissions (integrated pollution prevention and control) Not applicable					
Labelling (REGULATION (EC) No 1272/2008)					
Not a hazardous substance or mixture.					
Anchored-oligo(c	IT)18 Primer				

Roche

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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
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable

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

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

SAFETY DATA SH according to Regulation Transcriptor cD		react.			
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emissions (integrated pollution prevention and control) Not applicable					
Labelling (REGULATION (EC) No 1272/2008)					

Roche

Not a hazardous substance or mixture.

Random Hexamer Primer

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

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



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			_

emissions (integrated pollution prevention and control) Not applicable

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Water

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

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



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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

H302 :	Harmful if swallowed.		
H318 :	Causes serious eye damage.		
H411 :	Toxic to aquatic life with long lasting effects.		
Full text of other abbreviations			

:	Acute toxicity Long-term (chronic) aquatic hazard
	Serious eye damage

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Transcriptor cDNA Synth. Kit 200 react.



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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.

DE / EN / 2010