

# **Transcriptor One-Step RT-PCR Kit 150 Rx**

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

# **Cover letter for product:**

Trade name : Transcriptor One-Step RT-PCR Kit 150 Rx

Product code : 04655885001

The product is sold as a kit, and contains the following components:

Enzyme mixture

Reaction buffer

Water

# The following is an overview of the labeling elements of the kit:

#### **GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

The product was evaluated per International Air Transport Association (IATA) specifications with the following outcome:

Not assigned by regulation



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

#### **SECTION 1. IDENTIFICATION**

Product name : Enzyme mixture

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics Deutschland GmbH

Address : 116 Sandhoferstrasse

Mannheim, 68305

Germany

Telephone : +496217590 Telefax : +496217592890

E-mail address : info.dia-sds@roche.com

Emergency telephone

In case of emergencies: : CHEMTREC +1 703-741-5970 / 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2,3-Propanetriol	56-81-5	>= 30 - < 50
Glycine, N,N'-1,2-ethanediylbis[N-	139-33-3	< 0.1
(carboxymethyl)-, sodium salt (1:2)		
Reverse Transcriptase	9068-38-6	< 0.1
Taq DNA Polymerase	123340-12-5	< 0.1
DNA-dependent DNA polymerase	9012-90-2	< 0.1

Actual concentration is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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.

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.

Most important symptoms and effects, both acute and

delayed

None known.

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

with the doctor responsible for industrial medicine.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon oxides

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Environmental precautions : Prevent product from entering drains.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on

storage conditions

: See label, package insert or internal guidelines

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

No decomposition if stored and applied as directed.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2,3-Propanetriol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
Glycine, N,N'-1,2- ethanediylbis[N- (carboxymethyl)-, sodium salt (1:2) The value is given in analogy to the following substances: Edetic acid	139-33-3	IOEL	1.5 mg/m3	Roche Industrial Hygiene Committee (RIHC)



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

Reverse Transcriptase	9068-38-6	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
Taq DNA Polymerase	123340-12-5	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)

**Engineering measures** : No data available

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

In case of contact through splashing:

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : > 0.11 mm

In case of full contact:

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : > 0.4 mm

Remarks : Wear appropriate protective gloves to prevent skin contact.

Replace torn or punctured gloves promptly.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless

Odor : slight



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Odor Threshold : No data available

pH : 6.6 - 8.6

Melting point/range :  $< -85 \, ^{\circ}\text{F} / < -65 \, ^{\circ}\text{C}$ 

Boiling point/boiling range : 210 °F / 99 °C

Flash point : does not flash

Evaporation rate : No data available

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

Flammability (liquids) : The product is not flammable., Does not sustain combustion.

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.14 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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

#### **SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : None.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Acute toxicity**

Not classified due to lack of data.

### **Components:**

# 1,2,3-Propanetriol:

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

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

Exposure time: 7 h
Test atmosphere: vapor

GLP: no

Assessment: The component/mixture is minimally toxic after

short term inhalation.

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

GLP: no

#### Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Acute oral toxicity : LD50 Oral (Rat): > 2,000 - 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - < 5 mg/l

Exposure time: 6 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The component/mixture is moderately toxic after

short term inhalation.



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

Taq DNA Polymerase:

Acute oral toxicity : Acute toxicity estimate: > 5,001 mg/kg

Method: Expert judgment

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

Test atmosphere: dust/mist Method: Expert judgment

Acute dermal toxicity : Acute toxicity estimate: > 5,001 mg/kg

Method: Expert judgment

Skin corrosion/irritation

Not classified due to lack of data.

**Components:** 

1,2,3-Propanetriol:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

GLP : no

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Result : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

**Components:** 

1,2,3-Propanetriol:

Species : Rabbit

Result : No eye irritation

Exposure time : 7 d GLP : no

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Result : No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

**Components:** 

1,2,3-Propanetriol:

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



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

#### Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Test Type : Maximization Test

Species : Guinea pig

Assessment : Does not cause skin sensitization.

Method : OECD Test Guideline 406

#### Germ cell mutagenicity

Not classified due to lack of data.

#### **Components:**

# 1,2,3-Propanetriol:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

# Carcinogenicity

Not classified due to lack of data.

# **Components:**

# 1,2,3-Propanetriol:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

GLP : No information available.

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

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

human carcinogen by IARC.

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

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

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

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

identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified due to lack of data.



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

### **Components:**

1,2,3-Propanetriol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

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

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

GLP: no

Effects on fetal development : Species: Rabbit, female

Application Route: Oral

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

Duration of Single Treatment: 29 d

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

GLP: no

STOT-single exposure

Not classified due to lack of data.

**Components:** 

**Reverse Transcriptase:** 

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

organ toxicant, single exposure.

Taq DNA Polymerase:

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

organ toxicant, single exposure.

**DNA-dependent DNA polymerase:** 

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

organ toxicant, single exposure.

STOT-repeated exposure

Not classified due to lack of data.

**Components:** 

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Routes of exposure : inhalation (dust/mist/fume)

Target Organs : Respiratory Tract

Assessment : May cause damage to organs through prolonged or repeated

exposure.

**Reverse Transcriptase:** 

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

organ toxicant, repeated exposure.

Taq DNA Polymerase:

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



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

organ toxicant, repeated exposure.

#### **DNA-dependent DNA polymerase:**

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

organ toxicant, repeated exposure.

#### Repeated dose toxicity

#### **Components:**

#### 1,2,3-Propanetriol:

Species : Rat, male and female

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

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

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

GLP : no

Species : Rat, male and female

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

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

Species : Rat

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

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

Dose : 0.5-4.0 ml/kg

GLP : no

Repeated dose toxicity -

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

### **Aspiration toxicity**

Not classified due to lack of data.

# **Components:**

### **Reverse Transcriptase:**

No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

# **Product:**

# **Ecotoxicology Assessment**

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

Other organisms relevant to

the environment

No data available

#### **Components:**

### 1,2,3-Propanetriol:

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

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

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

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

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

GLP: no

Toxicity to algae/aquatic

plants

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

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

GLP: no

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

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

GLP: No information available.

### **Ecotoxicology Assessment**

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

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

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

Other organisms relevant to

the environment

No data available

# Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

> Exposure time: 96 h Test Type: static test

Remarks: nominal concentration
Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test Method: DIN 38412

Remarks: nominal concentration

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h Test Type: static test

Remarks: Based on data from similar materials

Toxicity to fish (Chronic

toxicity)

NOEC (Danio rerio (zebra fish)): >= 36.9 mg/l

Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline 210

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC20 (activated sludge): > 500 mg/l

Exposure time: 30 min

Method: OECD Test Guideline 209

**Reverse Transcriptase:** 

**Ecotoxicology Assessment** 

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

Other organisms relevant to

the environment

No data available

**Taq DNA Polymerase:** 

Toxicity to fish : LC50 : > 100 mg/l

Exposure time: 96 h

**Ecotoxicology Assessment** 

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

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

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

Other organisms relevant to

the environment

No data available

**DNA-dependent DNA polymerase:** 

**Ecotoxicology Assessment** 



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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

Other organisms relevant to

the environment

: No data available

### Persistence and degradability

#### **Components:**

#### 1,2,3-Propanetriol:

Biodegradability : aerobic

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

Biodegradation: 94 % Exposure time: 24 h

GLP: no

### Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Biodegradability : aerobic

Result: Not readily biodegradable. Method: OECD Test Guideline 301D

Remarks: Based on data from similar materials

#### Bioaccumulative potential

#### **Components:**

# 1,2,3-Propanetriol:

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

octanol/water pH: 7.4

Method: OECD Test Guideline 107

GLP: no

### Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:2):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 1.8

Exposure time: 28 d

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -4.3 (77 °F / 25 °C)

pH: 4.5

### **Reverse Transcriptase:**

Partition coefficient: n-

octanol/water

: Remarks: No data available

### **Taq DNA Polymerase:**

Partition coefficient: n-

octanol/water

: Remarks: No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

**DNA-dependent DNA polymerase:** 

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** 

Not regulated as a dangerous good

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

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

Not applicable

**Domestic regulation** 

**49 CFR** 



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024
3.6 04-09-2024 Date of first issue: 12-03-2015

Not regulated as a dangerous good

Special precautions for user

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

IMDG-Code, ICAO/IATA-DGR

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : No SARA Hazards

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

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

#### Clean Air Act

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

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

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

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

1,2,3-Propanetriol 56-81-5 >= 30 - < 50 %

# Clean Water Act

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

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

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

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

### **US State Regulations**

#### Massachusetts Right To Know

1,2,3-Propanetriol 56-81-5

# Pennsylvania Right To Know

Water 7732-18-5 1,2,3-Propanetriol 56-81-5

#### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

**Vermont Chemicals of High Concern** 

Product does not contain any listed chemicals

**Washington Chemicals of High Concern** 

Product does not contain any listed chemicals

**California Permissible Exposure Limits for Chemical Contaminants** 

1,2,3-Propanetriol 56-81-5

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

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

RNase Inhibitor

Reverse Transcriptase

Taq DNA Polymerase

DNA-dependent DNA polymerase

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

**TSCA list** 

The following substance(s) is/are subject to a Significant New Use Rule:

Poly(oxy-1,2-ethanediyl), .alpha.- 9016-45-9 See 40 CFR § 721.10765; Proposed

(nonylphenyl)-.omega.-hydroxy-

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



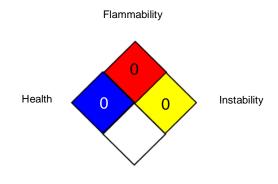
# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Distributor

MilliporeSigma 3050 Spruce Street SAINT LOUIS MO 63103 USA

#### Full text of other abbreviations

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-09-2024

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.

US / Z8 / 2304



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

#### **SECTION 1. IDENTIFICATION**

Product name : Reaction buffer

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics Deutschland GmbH

Address : 116 Sandhoferstrasse

Mannheim, 68305

Germany

Telephone : +496217590 Telefax : +496217592890

E-mail address : info.dia-sds@roche.com

Emergency telephone

In case of emergencies: : CHEMTREC +1 703-741-5970 / 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Methane, 1,1'-sulfinylbis-	67-68-5	>= 10 - < 20

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air.

Reaction buffer 20



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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.

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.

Most important symptoms and effects, both acute and

delayed

None known.

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

with the doctor responsible for industrial medicine.

### **SECTION 5. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

Specific hazards during fire

fighting

No information available.

Hazardous combustion

products

Carbon oxides Sulfur oxides

Nitrogen oxides (NOx)

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024
3.6 04-09-2024 Date of first issue: 12-03-2015

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Further information on

storage conditions

See label, package insert or internal guidelines

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

No decomposition if stored and applied as directed.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methane, 1,1'-sulfinylbis-	67-68-5	TWA	250 ppm	US WEEL

**Engineering measures** : No data available

# Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

In case of contact through splashing:

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : > 0.11 mm

In case of full contact:

 $\begin{array}{lll} \text{Material} & : & \text{butyl-rubber} \\ \text{Break through time} & : & > 480 \text{ min} \\ \text{Glove thickness} & : & > 0.4 \text{ mm} \end{array}$ 

Remarks : Wear appropriate protective gloves to prevent skin contact.

22

Replace torn or punctured gloves promptly.

Eye protection : Safety glasses

Skin and body protection : Protective suit



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : 7.7 - 9.7

Melting point/range : -11 °F / -24 °C

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

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable., Does not sustain combustion.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.04 g/cm3

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

#### **SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

Ammonia gas may be liberated at high temperatures.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Not classified due to lack of data.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

### **Components:**

Methane, 1,1'-sulfinylbis-:

Acute oral toxicity : LD50 (Rat, male and female): 28,300 mg/kg

Method: OECD Test Guideline 401



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

GLP: no

Acute inhalation toxicity : LC0 (Rat, male and female): > 5.33 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): 40,000 mg/kg

GLP: no

#### Skin corrosion/irritation

Not classified due to lack of data.

#### **Components:**

#### Methane, 1,1'-sulfinylbis-:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

GLP : yes

Remarks : Mild skin irritation

# Serious eye damage/eye irritation

Not classified due to lack of data.

#### **Components:**

# Methane, 1,1'-sulfinylbis-:

Species : Rabbit Exposure time : 24 h

Method : OECD Test Guideline 405 GLP : No information available. Remarks : Mild eye irritation

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

#### **Components:**

#### Methane, 1,1'-sulfinylbis-:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitization.

Method : OECD Test Guideline 429

GLP : No information available.

Assessment : Mild eye irritation, Mild skin irritation



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

### Germ cell mutagenicity

Not classified due to lack of data.

### **Components:**

### Methane, 1,1'-sulfinylbis-:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: No information available.

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

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: No information available.

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

GLP: No information available.

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Rat (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Dose: 200, 1000, 5000 mg/kg/d Method: OECD Test Guideline 474

GLP: yes

### Carcinogenicity

Not classified due to lack of data.

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

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

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

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

identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified due to lack of data.

#### **Components:**

#### Methane, 1,1'-sulfinylbis-:

Effects on fertility : Species: Rat, male and female



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Application Route: Oral

Dose: 100, 300, 1000 mg/kg bw/day Fertility: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 421

GLP: yes

Effects on fetal development : Species: Rat, female

Application Route: Oral

Dose: 200, 1000, 5000 milligram per kilogram

Duration of Single Treatment: 10 d

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

Method: OECD Test Guideline 414

GLP: yes

# STOT-single exposure

Not classified due to lack of data.

#### **STOT-repeated exposure**

Not classified due to lack of data.

# Repeated dose toxicity

#### **Components:**

#### Methane, 1,1'-sulfinylbis-:

Species : Monkey, male and female

 NOAEL
 : 2970 mg/kg

 NOAEL
 : 2,970 mg/kg

Application Route : Oral Exposure time : 87 Weeks

Dose : 990, 2970, 8910 mg/kg Method : OECD Test Guideline 452

GLP : no

Species : Rat, male and female

NOAEC : 2783 mg/l Application Route : Inhalation Test atmosphere : vapor Exposure time : 13 Weeks

Dose : 0.310, 0.964, 2.783 mg/l Method : OECD Test Guideline 413

GLP : yes

Species : Monkey, male and female

NOAEL : > 8910 mg/kg
NOAEL : > 8,910 mg/kg
Application Route : Dermal
Exposure time : 18 Months

Dose : 990, 2970, 8910 mg/kg bw/da Method : OECD Test Guideline 452

GLP : no

Repeated dose toxicity -

Assessment

: Mild eye irritation, Mild skin irritation



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

### **Aspiration toxicity**

Not classified due to lack of data.

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Product:** 

**Ecotoxicology Assessment** 

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

Other organisms relevant to

the environment

No data available

**Components:** 

Methane, 1,1'-sulfinylbis-:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 25,000 mg/l

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

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 24,600 mg/l

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

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

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 17,000

mg/l

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

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 10 - 100 mg/l

Exposure time: 0.5 h Analytical monitoring: no Method: ISO 8192

28

GLP: No information available.

**Ecotoxicology Assessment** 

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

Other organisms relevant to : No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

the environment

Persistence and degradability

**Components:** 

Methane, 1,1'-sulfinylbis-:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 2 mg/l

Result: Not readily biodegradable.

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

Bioaccumulative potential

**Components:** 

Methane, 1,1'-sulfinylbis-:

Partition coefficient: n-

octanol/water

log Pow: -1.35 (68 °F / 20 °C)

pH: 7

GLP: No information available.

Mobility in soil
No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

В).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

29

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

International Regulations

**SECTION 14. TRANSPORT INFORMATION** 



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable

#### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

#### Special precautions for user

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

IMDG-Code, ICAO/IATA-DGR

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : No SARA Hazards

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

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

#### Clean Air Act

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

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

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

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

Methane, 1,1'-sulfinylbis- 67-68-5 >= 10 - < 20 %

#### **Clean Water Act**

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

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



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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

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

### **US State Regulations**

# Massachusetts Right To Know

Sulfuric acid ammonium salt (1:2) 7783-20-2

Pennsylvania Right To Know

Water 7732-18-5
OLIGO(C3SPACER)40 Not Assigned
Methane, 1,1'-sulfinylbis- 67-68-5
OLIGORANDOM6MER PYRENE CAP Not Assigned
Sulfuric acid ammonium salt (1:2) 7783-20-2

#### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

#### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

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

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

OLIGO(C3SPACER)40

**OLIGORANDOM6MER PYRENE CAP** 

2'-Deoxyguanosine 5'-triphosphate trisodium salt

2'-Deoxythymidine-5'-triphosphate-trisodium salt

2'-Deoxyadenosine 5'-(disodium dihydrogen triphosphate)

(dATP)

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



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

TCSI : Not in compliance with the inventory

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

TECI: Not in compliance with the inventory

#### **TSCA list**

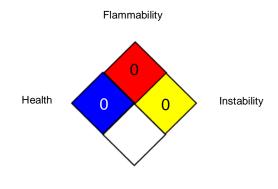
No substances are subject to a Significant New Use Rule.

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

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### **Distributor**

MilliporeSigma 3050 Spruce Street SAINT LOUIS MO 63103 USA

#### Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-09-2024

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.

US / Z8 / 2304



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015

#### **SECTION 1. IDENTIFICATION**

Product name : Water

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics Deutschland GmbH

Address : 116 Sandhoferstrasse

Mannheim, 68305

Germany

Telephone : +496217590 Telefax : +496217592890

E-mail address : info.dia-sds@roche.com

Emergency telephone

In case of emergencies: : CHEMTREC +1 703-741-5970 / 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Restrictions on use : For professional users only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

Substance name : Water

CAS-No. : 7732-18-5

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

General advice : No hazards which require special first aid measures.

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.

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.

Most important symptoms and effects, both acute and

delayed

None known.

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

with the doctor responsible for industrial medicine.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

Specific hazards during fire

fighting

No information available.

Hazardous combustion

products

No hazardous combustion products are known

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Refer to protective measures listed in sections 7 and 8.

No conditions to be specially mentioned.



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Environmental precautions : Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE** 

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Further information on

storage conditions

See label, package insert or internal guidelines

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

No decomposition if stored and applied as directed.

Packaging material : Suitable material: Stainless steel, glass, Plastic container of

HDPE, Vials, Prefilled syringes

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION** 

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

In case of contact through splashing:

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : > 0.11 mm

In case of full contact:

Material : butyl-rubber Break through time : > 480 min



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Glove thickness : > 0.4 mm

Remarks : Wear appropriate protective gloves to prevent skin contact.

Replace torn or punctured gloves promptly.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless, clear

Odor : odorless

Odor Threshold : No data available

pH : 7.0

Concentration: 100 %

Melting point/freezing point : 32.0 °F / 0.0 °C

Boiling point/boiling range : 211.95 °F / 99.97 °C

(1,013 hPa)

Evaporation rate : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : 0.61 hPa (32 °F / 0 °C)

1,013 hPa (211.95 °F / 99.97 °C)

Relative vapor density : No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Relative density : No data available

Density : 1.000 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : (68 °F / 20 °C)

Solvent: Ethanol

Description: completely miscible

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 0.998 mPa.s (68 °F / 20 °C)

0.285 mPa.s (211.95 °F / 99.97 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

Surface tension : 72.74 mN/m, 68 °F / 20 °C

58.92 mN/m, 68 °F / 20 °C

Molecular weight : 18.02 g/mol

#### **SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No data available

No dangerous reaction known under conditions of normal use.

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : Alkali metals

Alkaline earth metals

Acid chlorides



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

Reducing agents

Hazardous decomposition

products

No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified due to lack of data.

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

### Respiratory sensitization

Not classified due to lack of data.

#### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

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

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

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

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

identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified due to lack of data.

# STOT-single exposure

Not classified due to lack of data.

#### STOT-repeated exposure

Not classified due to lack of data.

#### **Aspiration toxicity**

Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

### Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

#### Mobility in soil

No data available

#### Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

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

### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable

### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

# Special precautions for user

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

IMDG-Code, ICAO/IATA-DGR



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : No SARA Hazards

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

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

#### Clean Air Act

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

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

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

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

#### **Clean Water Act**

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

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

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

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

#### **US State Regulations**

#### Massachusetts Right To Know

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

#### Pennsylvania Right To Know

Water 7732-18-5

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

#### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

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

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



# **Transcriptor One-Step RT-PCR Kit 150 Rx**

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

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

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

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

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

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

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

#### **SECTION 16. OTHER INFORMATION**

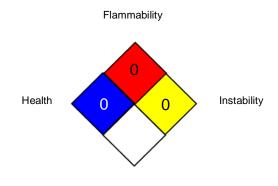
### **Further information**



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

# NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### **Distributor**

MilliporeSigma 3050 Spruce Street SAINT LOUIS MO 63103 USA

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS



# Transcriptor One-Step RT-PCR Kit 150 Rx

Version Revision Date: Date of last issue: 04-09-2024 3.6 04-09-2024 Date of first issue: 12-03-2015

- Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-09-2024

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.

US / Z8 / 2304



# **Transcriptor One-Step RT-PCR Kit 150 Rx**

Version Revision Date: Date of last issue: 04-09-2024 3.6 O4-09-2024 Date of first issue: 12-03-2015