

Safety Data Sheet

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

Identification of the substance or mixture

Product code 902100

Product name 2nd-cycle ss-cDNA enzyme

Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1

[or Dangerous Goods] Incident. Spill, Leak, Fire, 703-527-3887

Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: +1 703-741-5970

Country Specific Emergency Number (if available):

CHEMTREC Israel (Tel Aviv) +(972)-37630639 (Greeting Language: Hebrew)

CHEMTREC Malaysia 1-800-815-308 (Toll Free) (Greeting Language: Malay)

CHEMTREC Malaysia (Kuala Lumpur) +(60)-327884561 (Greeting Language: Malay)

CHEMTREC Philippines 1-800-1-116-1020 (Toll Free) (Greeting Language: Tagalog)

CHEMTREC Philippines (Manila) +(63) 632-395-3308 (Greeting Language: Tagalog)

CHEMTREC Saudi Arabia +(966)-8111095861 (Greeting Language: Arabic and English)

CHEMTREC Singapore 800-101-2201 (Toll Free) (Greeting Language: English and Mandarin)

CHEMTREC Singapore +(65)-31581349 (Greeting Language: English and Mandarin)

CHEMTREC Australia (Sydney) +(61)-290372994 (Greeting Language: English)
CHEMTREC New Zealand (Auckland) +(64)-98010034 (Greeting Language: English)
CHEMTREC South Africa 0-800-983-611 (Greeting Language: English)

CHEMTREC Vietnam (Hanoi) +(84)-444581771 (welcome Language: Vietnamese)

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Revision date 15-Mar-2019 Page 1 / 11

SECTION 2: Hazards identification

Australian SDS Statement

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS - Classification

Health hazards

Not Hazardous

Physical hazards

Not Hazardous

Environmental hazards

Not Hazardous

Label elements

Signal Word

None

Hazard pictograms

None

Hazard pictograms names

None

Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Contains a known or suspected endocrine disruptor

Revision date Product code 15-Mar-2019 902100

SECTION 3: Composition/information on ingredients

Component	CAS-No.	Common name	EINECS-No.	Weight percent
Poly(oxy-1,2-ethanediyl),	9002-93-1	-	-	<0.9
.alpha[4-(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
9002-93-1 (<0.9)				
Glycerin	56-81-5	-	200-289-5	40-70
56-81-5 (40-70)				

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact Rinse with plenty of water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Not expected to present a significant ingestion hazard under anticipated conditions Ingestion

of normal use. If you feel unwell, seek medical advice.

Not expected to be an inhalation hazard under anticipated conditions of normal Inhalation

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

Page 3/11

Special hazards arising from the substance or mixture

Not known.

Advice for fire-fighters

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See Section 8 for more detail.

Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	Australia STEL	Australia	Australia - Skin Absorbers	Australia - OES - Peak
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetrameth ylbutyl)phenyl]omegahydr		None	None	None
oxy- 9002-93-1				
Glycerin 56-81-5	None	10 mg/m ³	None	None

Chemical Name	New Zealand - Workplace Exposure Limits	New Zealand TWA	New Zealand STEL	New Zealand Ceiling Limits
Poly(oxy-1,2-ethanediyl),	None	None	None	None
.alpha[4-(1,1,3,3-tetrameth				
ylbutyl)phenyl]omegahydr				
oxy-				
9002-93-1				
Glycerin	None	10 mg/m ³	None	None
56-81-5				

Chemical Name	China OEL (MAC)	China - Skin Absorbers	Hong Kong OEL
Poly(oxy-1,2-ethanediyl),	None	None	None
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydro			
xy-			
9002-93-1			
Glycerin	None	None	None

Revision date 15-Mar-2019 Product code 902100

Page 4/11
Product name 2nd-cycle ss-cDNA enzyme

Chemical Name	Korea OEL (CEILING)	Korea OEL (TWA)	Korea OEL (STEL)
Poly(oxy-1,2-ethanediyl),	None	None	None
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydro			
xy-			
9002-93-1			
Glycerin	None	10 mg/m ³	None
56-81-5			

Chemical Name	Taiwan OEL - TWA	Taiwan OEL (Skin notations, Carcinogens)	Taiwan OEL (STELs)	Taiwan OEL (Ceilings)
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetrameth ylbutyl)phenyl]omegahydr oxy- 9002-93-1		None	None	None
Glycerin 56-81-5	None	None	None	None

Chemical Name	Singapore OEL (PEL)	Singapore OEL (STEL)
Poly(oxy-1,2-ethanediyl),	None	None
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydro		
xy-		
9002-93-1		
Glycerin	10 mg/m ³	None
56-81-5	-	

Chemical Name	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Poly(oxy-1,2-ethanediyl),	None	None
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydro		
xy-		
9002-93-1		
Glycerin	None	None
56-81-5		

Engineering measures

Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment

56-81-5

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Hand protection Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles

Skin and Body Protection Wear suitable protective clothing

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

Revision date Product code 15-Mar-2019 902100

Page 5 / 11 Product name 2nd-cycle ss-cDNA enzyme

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance liquid

Odour Hq

Melting point / melting range **Boiling point / boiling range**

Flash point

Autoignition Temperature Decomposition temperature

Evaporation rate

Flammability (solid, gas) **Upper explosion limit**

Lower explosion limit **Vapour Pressure** Relative density Specific gravity Solubility

Partition coefficient:

n-octanol/water

Viscosity

Explosive properties

Oxidising properties

No data available No data available

°C Mixture has not been tested °C Mixture has not been tested

No data

No data available

Mixture has not been tested Mixture has not been tested Mixture has not been tested Mixture has not been tested

No data

No data available No data available

No data

Mixture has not been tested

No data

Other information No data available.

SECTION 10: Stability and reactivity

Reactivity None known.

Stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.

Incompatible materials No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

Revision date Product code

15-Mar-2019 902100

°F Mixture has not been tested

SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Poly(oxy-1,2-ethanediyl),	= 1800 mg/kg (Rat) = 4190 mg/kg	No data available	No data available
.alpha[4-(1,1,3,3-tetramethylbutyl	(Rat) = 1700 mg/kg (Rat)		
)phenyl]omegahydroxy-			
Glycerin	= 12600 mg/kg (Rat)	No data available	>570mg/m³(Rat)

Principal Routes of Exposure

Skin corrosion/irritation Conclusive but not sufficient for classification

Serious eye damage/irritation Conclusive but not sufficient for classification

Respiratory or skin

sensitisation

Conclusive but not sufficient for classification

Specific target organ toxicity Conclusive but not sufficient for classification (STOT) – single exposure

Specific target organ toxicity Conclusive but not sufficient for classification

(STOT) - repeated exposure

Carcinogenicity Conclusive but not sufficient for classification

Germ cell mutagenicity Conclusive but not sufficient for classification

Reproductive toxicity Conclusive but not sufficient for classification

Aspiration hazard Conclusive but not sufficient for classification

SECTION 12: Ecological information

Toxicity

Hazardous to the Aquatic Environment.

Chemical Name	Freshwater Algae	Water Flea Data	Freshwater Fish	Microtox Data	log Pow
	Data		Species Data		
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetrameth ylbutyl)phenyl]omegahyd roxy-		No data available	No data available	No data available	No data available
Glycerin	No data available	Daphnia magna EC50>500 mg/L (24 h)	No data available	No data available	logPow-1.76

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects Contains a known or suspected endocrine disruptor.

Revision date 15-Mar-2019 Product code 902100

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not empty into drains. Do not dispose of waste into sewer.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not Applicable
UN proper shipping name Not Applicable
Transport hazard class(es) Not Applicable
Packing group Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code Not Applicable.

Revision date Product code 15-Mar-2019 902100

SECTION 15: Regulatory information

International Inventories

Chemical Name	US TSCA	Canada (DSL)	NDSL	PICCS (Philippines)
Poly(oxy-1,2-ethanediyl),	Listed	Listed	=	Listed
.alpha[4-(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Glycerin	Listed	Listed	-	Listed

Chemical Name	ENCS (Japan)	IECSC - China Inventory of Existing Chemical Substances	South Korea (KECL)	AICS (Australia)
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	-	Listed	Listed	Listed
Glycerin	Listed	Listed	Listed	Listed

Chemical Name	NZIoC - New Zealand Inventory of		ELINCS (European List of
	Chemicals		Notified Chemical Substances)
Poly(oxy-1,2-ethanediyl),	Listed	-	-
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl			
]omegahydroxy-			
Glycerin	Listed	Listed	-

Korea

Chemical Name	Wastes Control Act	Safety Control of Dangerous Substances
		Act
Poly(oxy-1,2-ethanediyl),	Not Listed	Not Listed
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahy		
droxy-		
Glycerin	Not Listed	Present

Industrial Safety and Health Law

Harmful substances subject to control

Refer to the Industrial Safety and Health Act, articles 24 and 38, and the Regulation on Industrial Health Standards, Annex 12 (related to articles 420, 439, 440)

Chemical Name	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	ISHA - Substances to be controlled - Metals		ISHA - Substances to be controlled - Acids and bases	
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramet hylbutyl)phenyl]omegah ydroxy-		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Harmful agents subject to work environment monitoring

Refer to the Industrial Safety and Health Act, article 42, and the Enforcement Regulation of the Industrial Safety and Health Act, article 93-1

Chemical Name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Poly(oxy-1,2-ethanediyl),	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Revision date Product code 15-Mar-2019 902100 Page 9/11 Product name 2nd-cycle ss-cDNA enzyme

.alpha[4-(1,1,3,3-tetramethyl butyl)phenyl]omegahydroxy					
Glycerin	Not Applicable				

Harmful agents subject to workers requiring health examination

Refer to the Industrial Safety and Health Act, article 43, and the Enforcement Regulation of the Industrial Safety and Health Act, article 98-2

Chemical Name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethyl butyl)phenyl]omegahydroxy		Not Applicable	Not Applicable	Not Applicable	Not Applicable
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemicals Control Act

Chemical Name	Toxic substance	Prohibited substance	Restricted substance
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	Not Applicable	Not Applicable	Not Applicable
Glycerin	Not Applicable	Not Applicable	Not Applicable

Act on Registration, Evaluation, etc. of Chemicals (K-REACH)

Refer to the Act on Registration and Evaluation of Chemical Substances, Articles 8-4, 9 and 10-2

Chemical Name	Existing substances subject to		Existing substances known to
	registration	to be subject to registration	be of very low risk
Poly(oxy-1,2-ethanediyl),	Not Applicable	Not Applicable	Not Applicable
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl			
]omegahydroxy-			
Glycerin	Not Applicable	Not Applicable	Not Applicable

Chemicals Control Act (CCA) - Accident Precaution Chemicals
Refer to the Chemicals Control Act (CCA), Articles 2-6 and 39, the Enforcement Decree of Chemicals Control Act, Article 17, and the Enforcement Regulation of Chemicals Control Act, Articles 45 and Annex 10

Chemical Name	Threshold Values (%)	Quantity limit for	Quantity limit for
		manufacture/use	custody/storage
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	Not Applicable	Not Applicable	Not Applicable
Glycerin	Not Applicable	Not Applicable	Not Applicable

Singapore

Chemical Name	Singapore - Poisons List
Poly(oxy-1,2-ethanediyl),	Not Listed
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	
Glycerin	Not Listed

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Revision date 15-Mar-2019 902100 Product code

Page 10 / 11

Chemical Name	Toxic Chemical Substances	Toxic Chemical Substances	Hazard Prevention Standard for
	Control Act - Classification and	Control Act - Threshold	Specified Chemical Substances
	Control Levels	Regulated Quantities	
Poly(oxy-1,2-ethanediyl),	Not Listed	Not Listed	Not Listed
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl			
]omegahydroxy-			
Glycerin	Not Listed	Not Listed	Not Listed

China

Chemical Name	China - Catalogue of Occupational Hazard Factors	China - Dangerous Goods List	China - Catalog of Hypertoxic Chemicals	China - List of Dangerous Chemicals for Priority Management
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Not Listed	Not Listed	Not Listed	Not Listed
Glycerin	Not Listed	Not Listed	Not Listed	Not Listed

SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number

Revision date 15-Mar-2019

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References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

Revision date Product code 15-Mar-2019 902100 Page 11 / 11
Product name 2nd-cycle ss-cDNA enzyme