

Revision date 08-Dec-2023

SAFETY DATA SHEET

Version 2

Section 1: Identification		
Product identifier		
Product name	Luna® Probe One-Step RT-qPCR 4X Mix with UDG	
Product No	M3019	
Other means of identification		
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	This product is for research and development only	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier</u> New England BioLabs (Australia) Pty Ltd 22/270 Ferntree Gully Road Notting Hill, VIC 3168		
E-mail address	info.au@neb.com	
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
National Poisons Centre	0800 764 766 (toll free)	
24 Hour Emergency Phone Number	Chemtrec +65 3163 8374	

Section 2: Hazard identification

GHS Classification

Not classified

Label elements

Hazard statements Not classified

Other hazards which do not result in classification No information available.

Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Potassium Chloride	7447-40-7	0 - 10%
Trade Secret	-	0 - 10%

Non-hazardous ingredients Proprietary Balance

Section 4: First-aid measures

Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Most important symptoms and effe	cts, both acute and delayed	
Most important symptoms and effer Symptoms	cts, both acute and delayed No information available.	
Symptoms		
Symptoms	No information available.	

Suitable extinguishing media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Special exposure hazards in a fire			
Specific hazards arising from the chemical	No information available.		
Protective equipment and precaution	Protective equipment and precautions for firefighters		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.		
Section 6: Accidental release measures			
Personal precautions, protective ed	quipment and emergency procedures		
Personal precautions	Ensure adequate ventilation.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Precautions to prevent secondary hazards			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Section 7: Handling and s	torage		

Section 7. Handling and Storage		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
-		
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	None known based on information supplied.	

Section 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	New Zealand	Australia	ACGIH TLV	United Kingdom
Trade Secret	TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³	TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³	-	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³

Biological occupational exposure This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. limits

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Hand protection	No special protective equipment required.	
Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
Environmental exposure controls	No information available.	

Section 9: Physical and chemical properties

Information on basic physical and chemical properties			
Physical state	Liquid		
Appearance	Blue		
Color	No information available		
Odor	None.		
Odor threshold	No information available		
Property	Values	Remarks • Method	
рН	8.1		
Melting point / freezing point	No data available	None known	
Initial boiling point and boiling rang	eNo data available	None known	
Flash point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
Upper flammability or explosive limits	No data available		
Lower flammability or explosive limits	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Relative density	No data available	None known	
Water solubility	No data available	None known	

Solubility(ies) Partition coefficient Autoignition temperature	No data available No data available 371 °C	None known None known None known
Decomposition temperature Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Other information Softening point Molecular weight VOC content Liquid Density Bulk density Particle characteristics	No information available No information available No information available No information available No information available No information available	

Section 10: Stability and reactivity Reactivity

Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal conditions.	
Explosion data		
Sensitivity to mechanical impact	None.	
Sensitivity to static discharge	None.	
Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid		
Conditions to avoid	None known based on information supplied.	
Incompatible materials		
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products		
Hazardous decomposition products None known based on information supplied.		

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.

Skin contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance of mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)27,284.30mg/kgATEmix (dermal)28,613.10mg/kgATEmix (inhalation-gas)99,999.00ppmATEmix (inhalation-vapor)99,999.00mg/lATEmix (inhalation-dust/mist)99,999.00mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Chloride	= 2600 mg/kg (Rat)	-	-
Trade Secret	Trade Secret = 20 g/kg (Rat)		-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Data used to identify the health effects	Refer to Section 16 for Key literature references and sources for data used to compile the SDS.

Section 12: Ecological information

Ecotoxicity

Aquatic ecotoxicity

The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Potassium Chloride		LC50: =1060mg/L (96h, Lepomis	EC50: =825mg/L (48h, Daphnia
	Desmodesmus subspicatus)	macrochirus)	magna)
		LC50: 750 - 1020mg/L (96h,	EC50: =83mg/L (48h, Daphnia
		Pimephales promelas)	magna)
Trade Secret	EC50: =19000mg/L (96h,	LC50: =51600mg/L (96h,	EC50: >1000mg/L (48h,
	Pseudokirchneriella subcapitata)	Oncorhynchus mykiss)	Daphnia magna)
		LC50: 41 - 47mL/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =51400mg/L (96h,	
		Pimephales promelas)	
		LC50: =710mg/L (96h,	
		Pimephales promelas)	

Terrestrial ecotoxicity	There is no data for this product.
Persistence and degradability	No information available.

Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Trade Secret	-1.07

Mobility in soil

Mobility

No information available.

Other adverse effects

No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused	Not applicable.
products	Not Hazardous.
Contaminated packaging	Not applicable. Not Hazardous.

Section 14: Transport information

<u>IATA</u>

Not regulated

IMDG

Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

Special precautions for user

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Please refer to the applicable dangerous goods regulations for additional information

Section 15: Regulatory information		
Regulatory information		
EPA New Zealand HSNO approval code or group standard	To be determined	
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances	
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information	

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories			
NZIoC	Contact supplier for inventory compliance status.		
TSCA	Contact supplier for inventory compliance status.		
DSL/NDSL	Contact supplier for inventory compliance status.		
EINECS/ELINCS	Contact supplier for inventory compliance status.		
ENCS	Contact supplier for inventory compliance status.		
IECSC	Contact supplier for inventory compliance status.		
KECL	Contact supplier for inventory compliance status.		
PICCS	Contact supplier for inventory compliance status.		
AIIC	Contact supplier for inventory compliance status.		
Legend:	Chemicale		
NZIOC - New Zealand Inventory of (
	nces Control Act Section 8(b) Inventory		
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List			
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances			

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Section 16: Other information			
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Revision date Revision note			data Cantastinfa@nah sam far latast revision
	dated data since last publication		date. Contact info@neb.com for latest revision
	I to abbreviations and acronyr		sheet
	on 8: EXPOSURE CONTROLS/		
TWA	TWA (time-weighted avera		STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		
Agency for To: U.S. Environm European Foo EPA (Environm Acute Exposur U.S. Environm Food Research Hazardous Su International U National Institu Australia Nation NIOSH (Natior National Librar National Librar National Librar National Toxic New Zealand's Organization for	bstance Database niform Chemical Information Da ite of Technology and Evaluation nal Industrial Chemicals Notifica nal Institute for Occupational Saf y of Medicine's ChemID Plus (N y of Medicine's PubMed databa ology Program (NTP) c Chemical Classification and Infor Economic Co-operation and E or Economic Co-operation and E	istry (ATSDR) iew Database Insecticide, Fungicide, and F oduction Volume Chemicals tabase (IUCLID) n (NITE) tion and Assessment Schem ety and Health) LM CIP) se (NLM PUBMED) ormation Database (CCID) evelopment Environment, He evelopment High Production	Rodenticide Act ne (NICNAS) lealth, and Safety Publications n Volume Chemicals Program
<u>Disclaimer</u>		0	

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End of Safety Data Sheet