

Revision date 08-Dec-2023

# SAFETY DATA SHEET

Version 2

Section 1: Identification			
Product identifier			
Product name	Blunt/TA Ligase Master Mix		
Product No	E7373		
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 I 22/270 Ferntree Gully Road Notting Hill, VIC 3168	Ltd		
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-%	Weight-%	
Trade Secret	-	10 - 20%	10 - 20%	
Non-hazardous ingredients	Proprietary	Balance		

# 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			
Symptoms	No information available.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

# Section 5: Fire-fighting measures

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	ons 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 equipment 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 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: 150 ppm	-	TWA: 150 ppm
	TWA: 474 mg/m <sup>3</sup>	TWA: 474 mg/m <sup>3</sup>		TWA: 474 mg/m <sup>3</sup>
	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
				STEL: 450 ppm
				STEL: 1422 mg/m <sup>3</sup>
				STEL: 30 mg/m <sup>3</sup>

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

### 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	Colorless	
Color	No information available	
Odor	Mild.	
Odor threshold	No information available	
Property_	Values	Remarks • Method
рН	No data available	None known
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	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
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)	No data available	None known
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Partition coefficient Autoignition temperature Decomposition temperature	No data available 371   °C	None known None known
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		

# 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.

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 document

33,787.00	mg/kg
28,895.30	mg/kg
99,999.00	ppm
99,999.00	mg/l
99,999.00	mg/l
	28,895.30 99,999.00 99,999.00

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-

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

## 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
Trade Secret	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	EC50: >1000mg/L (48h, Daphnia magna)

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

IATA 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

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:

**NZIOC** - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances 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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Key or legend to	ed data since last publication. <b>abbreviations and acronyms used in the s</b> <u>3: EXPOSURE CONTROLS/PERSONAL PRO</u> TWA (time-weighted average) Maximum limit value Carcinogen		STEL (Short Term Exposure Limit) Skin designation
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta V.S. Environmenta Food Research Jo Hazardous Substa International Unifo National Institute of Australia National NIOSH (National I National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for E Organization for E Organization for E World Health Orga	ance Database orm Chemical Information Database (IUCLID) of Technology and Evaluation (NITE) Industrial Chemicals Notification and Assessen Institute for Occupational Safety and Health) f Medicine's ChemID Plus (NLM CIP) f Medicine's PubMed database (NLM PUBME gy Program (NTP) nemical Classification and Information Database iconomic Co-operation and Development Envi iconomic Co-operation and Development High iconomic Co-operation and Development Scree	gicide, and Rodentic Chemicals nent Scheme (NICN D) se (CCID) ronment, Health, an	AS) d Safety Publications c Chemicals Program
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End of Safety Data Sheet