

Revision date 19-Dec-2023

# SAFETY DATA SHEET

Version 5

1. Identification		
Product identifier		
Product name	RtcB Ligase	
Other means of identification		
Product No	M0458	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	This product is for research and development only	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA		
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
Telefax	978-921-1350	
E-mail address	info@neb.com	
24 Hour Emergency Phone Number	Chemtrec +1 703-741-5970	

### 2. Hazard(s) identification

**Classification** 

Label elements

#### Hazard statements

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

#### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

Mixture

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

### 5. Fire-fighting measures

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.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
----------------------	------------------------------

### 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.

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.

### 8. Exposure controls/personal protection

Control parameters Exposure 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.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Information on basic physical and		
Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild	
Odor threshold	No information available	
Broporty	Values	Remarks • Method
Property pH	<u>Values</u> 7.4	Remarks • Methou
•	No data available	None known
Melting point / freezing point Initial boiling point and boiling rang		None known
•••••••••••••••••••••••••••••••••••••••	No data available	None known
Flash point	No data available	None known
Evaporation rate		
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
Partition coefficient	No data available	None known
Autoignition temperature	392.78 °C / 739 °F	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	
	No information available	
Liquid Density	No information available	
Bulk density		

### 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products None known based on information supplied.	

# 11. Toxicological information

Information on likely routes of exposure

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.	
Symptome related to the physical	abamical and toxical acial abaracteristics	
Symptoms related to the physical, of Symptoms	chemical and toxicological characteristics No information available.	
Symptoms		
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated based on chapter 3.1 of the GHS document		
ATEmix (oral)	25,200.00 mg/kg	
ATEmix (dermal)	20,000.00 mg/kg	
ATEmix (inhalation-gas)	99,999.00 ppm	
ATEmix (inhalation-vapor)	99,999.00 mg/l	
ATEmix (inhalation-dust/mist)	99,999.00 mg/l	
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)		
Component Information		
Delayed and immediate effects as y	vell as chronic effects from short and long-term exposure_	
Skin corrosion/irritation	No information available.	
Serious eye damage/eye irritation	No information available.	
	No information available.	
Respiratory or skin sensitization		
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.

# 12. Ecological information

### Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulation	
Component Information	
Mobility in soil	No information available.
Other adverse effects	No information available.

13. Disposal considerations			
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		

# 14. Transport information

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated

ADR Not regulated

<u>ADN</u>

Not regulated

15. Regulatory information

### Regulatory 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

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.
NZIOC	Contact supplier for inventory compliance status.

Legend:

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

**NZIOC** - New Zealand Inventory of Chemicals

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania		
Glycerol	X	Х	X		
56-81-5			Y		
Ethylenediamine tetraacetic acid 60-00-4	X	X	X		
U.S. EPA Label Information EPA Pesticide Registration Number 16. Other information	Not applicable				
NFPA Health haza		Instability 0 Physical hazards 0	Special hazards - Personal protection X		
Key or legend to abbreviations and acronyms used in the safety data sheet					
Legend Section 8: EXPOSURE CON TWA TWA (time-weighte			m Exposure Limit)		
Ceiling Maximum limit valu		Skin designation			
Agency for Toxic Substances and Dise U.S. Environmental Protection Agency European Food Safety Authority (EFS/ EPA (Environmental Protection Agency Acute Exposure Guideline Level(s) (AE U.S. Environmental Protection Agency U.S. Environmental Protection Agency Food Research Journal Hazardous Substance Database International Uniform Chemical Informa National Institute of Technology and Er Australia National Industrial Chemicals NIOSH (National Institute for Occupation National Library of Medicine's ChemID National Library of Medicine's PubMed National Toxicology Program (NTP) New Zealand's Chemical Classification Organization for Economic Co-operation Organization for Economic Co-operation World Health Organization	ChemView Database A) () EGL(s)) Federal Insecticide, Fungicide, High Production Volume Chem ation Database (IUCLID) valuation (NITE) Notification and Assessment S onal Safety and Health) Plus (NLM CIP) database (NLM PUBMED) and Information Database (CC on and Development Environme on and Development High Prod	nicals Scheme (NICNAS) CID) ent, Health, and Safety Publicatic uction Volume Chemicals Progra			
Prepared by	Environmental, Health and Sa	fety, 978-927-5054			
Revision date	19-Dec-2023				
Revision note	No information available.				

Disclaimer

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of New England Biolabs, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. New England Biolabs will not be liable for any damages resulting from handling or contact with the

product.

End of Safety Data Sheet