

Revision date 06-May-2023

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Version 9

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

1.1. Product identifier	
Product No	N0364
Product name	Low Range ssRNA Ladder
Pure substance/mixture	Mixture
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Recommended use	This product is for research and development only
Uses advised against	No information available
1.3. Details of the supplier of the saf	fety data sheet
<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA	
For further information, please contact	_
Company Phone Number	978-927-5054, 800-632-5227 (toll free)
Telefax	978-921-1350
E-mail address	info@neb.com
1.4. Emergency telephone number	
24 Hour Emergency Phone Number	Chemtrec +44 20 3885 0382
Europe	+1 978-380-2125

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

No information available.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

## **SECTION 3: Composition/information on ingredients**

3.1SubstancesNot applicable3.2Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### SECTION 4: First aid measures

#### 4.1. 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. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.
<u>4.2. Most important symptoms and</u> Symptoms	effects, both acute and delayed No information available.
Effects of Exposure	No information available.

4.3. Indication of any immediate medical attention and special treatment neededNote to physiciansTreat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. 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.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
6.3. Methods and material for conta	inment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
6.4. Reference to other sections			
Reference to other sections	See section 8 for more information. See section 13 for more information.		

# SECTION 7: Handling and storage

7.1. Precautions for safe handling		
Advice on safe handling	Ensure adequate ventilation.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk management methods [RMM] The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

#### **Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Potassium Acetate	-	14.36 mg/kg bw/day [4] [6]	1265.65 mg/m <sup>3</sup> [4] [6]
127-08-2		86.14 mg/kg bw/day [4] [7]	1265.65 mg/m <sup>3</sup> [4] [7]

Notes

[4]	Systemic health effects.
[6]	Long term.
[7]	Short term.

#### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Potassium Acetate	6 mg/kg bw/day [4] [6]	43.07 mg/kg bw/day [4] [6]	624.2 mg/m³ [4] [6]
127-08-2	43.07 mg/kg bw/day [4] [7]	43.07 mg/kg bw/day [4] [7]	624.2 mg/m³ [4] [7]

#### Notes

[4]	Systemic health effects.
[6]	Long term.
[7]	Short term.

#### Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
Potassium Acetate 127-08-2	0.46 mg/L	-	0.046 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Potassium Acetate 127-08-2	0.00185 mg/kg sediment dw	0.000185 mg/kg sediment dw	0.862 g/L	0.00185 mg/kg soil dw	-

#### 8.2. Exposure controls

Engineering controls	No information available.		
Individual protection measures, such as personal protective equipment Eye/face 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.		
Environmental exposure controls	No information available.		

# **SECTION 9: Physical and chemical properties**

0.1 Information on basic physical a	nd chemical properties				
Physical state	9.1. Information on basic physical and chemical properties Physical state Liquid				
Appearance	Colorless				
Color	No information available				
Odor	Mild.				
Odor threshold	No information available				
ouor intestiolu					
Property	Values	Remarks • Method			
Melting point / freezing point	No data available	None known			
Initial boiling point and boiling rang	eNo 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					
Flash point	No data available	None known			
Autoignition temperature	No data available	None known			
Decomposition temperature		None known			
pH	No data available	None known			
pH (as aqueous solution)	No data available	None known			
Kinematic viscosity	No data available	None known			
Dynamic viscosity	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			
Vapor pressure	No data available	None known			
Relative density	No data available	None known			
Bulk density	No data available				
•					

Liquid Density Vapor density	No data available No data available	None known		
Particle characteristics Particle Size Particle Size Distribution	No information available No information available			
9.2. Other information				
9.2.1. Information with regard to ph Not applicable	ysical hazard classes			
9.2.2. Other safety characteristics No information available				
SECTION 10: Stability and	reactivity			
10.1. Reactivity				
Reactivity	No information available.			
10.2. Chemical stability	10.2. Chemical stability			
Stability Stable under normal conditions.				
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.				
10.3. Possibility of hazardous reactions				
Possibility of hazardous reactions	Possibility of hazardous reactions None under normal processing.			
10.4. Conditions to avoid				
Conditions to avoid None known based on information supplied.				
10.5. Incompatible materials				
Incompatible materials None known based on information supplied.				
10.6. Hazardous decomposition products				
Hazardous decomposition products None known based on information supplied.				

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 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 related to the physical, chemical and toxicological characteristics		

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00	mg/kg
ATEmix (dermal)	99,999.00	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

#### 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.		
11.2. Information on other hazards			
11.2.1. Endocrine disrupting properties			
Endocrine disrupting properties	No information available.		
11.2.2. Other information			
Other adverse effects	No information available.		
SECTION 12: Ecological information			

12.1. Toxicity		
Ecotoxicity		
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.	
12.2. Persistence and degradability	<u> </u>	
Persistence and degradability	No information available.	
12.3. Bioaccumulative potential		
Bioaccumulation	There is no data for this product.	
12.4. Mobility in soil		
Mobility in soil	No information available.	
12.5. Results of PBT and vPvB assessment		
PBT and vPvB assessment	No information available.	
12.6. Endocrine disrupting properties		
Endocrine disrupting properties	No information available.	

#### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

#### 13.1. 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.

# **SECTION 14: Transport information**

ΙΑΤΑ	_	
14.1	UN number or ID number	Not regulated
14.2	Extended Proper Shipping	Not regulated
Name	9	
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
IMDG	ì	
14.1	UN number or ID number	Not regulated

14.2 Extended Proper Shipping Name	Not regulated
<ul> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group</li> <li>14.5 Environmental hazard</li> <li>14.6 Special precautions for user Special Provisions</li> </ul>	Not regulated Not regulated Not applicable None
14.7 Maritime transport in bulk according to IMO instruments	No information available
RID	
14.1 UN/ID No	Not regulated
14.2 Extended Proper Shipping	Not regulated
Name	N
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user Special Provisions	None
ADR	
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user	
Special Provisions	None

# SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories	
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
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

#### 15.2. Chemical safety assessment

Chemical Safety Report No information available

### **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization:

LegendSection 8: EXPOSURE 0TWATWA (time-weigCeilingMaximum limit w+Sensitizers	hted average)	ROTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation
Key literature references and sou Agency for Toxic Substances and D U.S. Environmental Protection Ager European Food Safety Authority (El European Chemicals Agency (ECH European Chemicals Agency (ECH EPA (Environmental Protection Ager Acute Exposure Guideline Level(s) U.S. Environmental Protection Ager U.S. Environmental Protection Ager Food Research Journal Hazardous Substance Database International Uniform Chemical Info National Institute of Technology and Australia National Industrial Chemic NIOSH (National Institute for Occup National Library of Medicine's Chem National Library of Medicine's PubM National Toxicology Program (NTP) New Zealand's Chemical Classificat Organization for Economic Co-oper Organization for Economic Co-oper World Health Organization	isease Registry (ATSDR) icy ChemView Database FSA) A) Committee for Risk Asse A) (ECHA_API) ncy) (AEGL(s)) icy Federal Insecticide, Fun icy High Production Volume rmation Database (IUCLID) Evaluation (NITE) als Notification and Assessi ational Safety and Health) ID Plus (NLM CIP) led database (NLM PUBME ion and Information Databa ation and Development Env ation and Development High	ssment (ECHA_RAC gicide, and Rodentic Chemicals ment Scheme (NICN D) se (CCID) ironment, Health, an	ide Act IAS) d Safety Publications e Chemicals Program
Prepared by	Environmental, Health a	and Safety	
Revision note	SDS is valid 3 years from	m revision date. Con	tact info@neb.com for latest revision.
Revision date	06-May-2023		

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release and should not be taken as a warranty or quality specification. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless expressly specified in the text. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet