

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	N3320
Product name	EnGen sgRNA Reaction Mix, S. Pyogenes
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 sat	fety data sheet
Supplier Address 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

3.1 SubstancesNot applicable3.2 Mixtures

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.
4.2. Most important symptoms and 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 the 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 containment 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 No information available

# Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Trade Secret	7 mg/kg bw/day [4] [6]	-	-

Notes

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

# Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Trade Secret	3.21 mg/L	5.48 mg/L	0.32 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Trade Secret	288.9 mg/kg sediment dw	28.89 mg/kg sediment dw	90 mg/L	662.77 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**

9.1. Information on basic physical a	and chemical properties	
Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	None.	
Odor threshold	No information available	
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
рН	7.5	
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	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

# 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

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	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reacti	ons
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 pro	ducts_

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

11.1.	Information on hazard classes as d	efined in Regulation (EC) No 1272/2008
Inform	nation on likely routes of exposure	
Drodu	unt Information	-

Product Inform	ation
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Specific test data for the substance or mixture is not available.		
Specific test data for the substance or mixture is not available.		
Specific test data for the substance or mixture is not available.		
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 prope	rties		
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

Persistence and degradability No information available.

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

12.3. Bioaccumulative potential

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**

<u>IATA</u>	_		
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	<u>i</u>		
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	
14.7	Maritime transport in bulk	No information available	
acco	according to IMO instruments		

RID

	UN/ID No	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	
Special Provisions		None
ADR		
-	UN number or ID number	Not regulated
14.1	UN number or ID number UN proper shipping name	Not regulated Not regulated
14.1 14.2	•••••••••••••••••••••••••••••••••••••••	0
14.1 14.2 14.3	UN proper shipping name	Not regulated
14.1 14.2 14.3 14.4	UN proper shipping name Transport hazard class(es)	Not regulated Not regulated
14.1 14.2 14.3 14.4 14.5	UN proper shipping name Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated
14.1 14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Not regulated Not regulated Not regulated

# **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:					
<b>Legend Section</b> TWA Ceiling +	8: EXPOSURE CO TWA (time-weighte Maximum limit valu Sensitizers		OTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation	
Agency for Toxic S U.S. Environmenta European Food Sa European Chemica European Chemica EPA (Environmenta Acute Exposure G U.S. Environmenta Food Research Jo Hazardous Substa International Unifo National Institute of Australia National NIOSH (National In National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for Ed	Substances and Dise al Protection Agency afety Authority (EFS, als Agency (ECHA) als Agency (ECHA) als Agency (ECHA) tal Protection Agency uideline Level(s) (Al al Protection Agency urnal ince Database rm Chemical Inform of Technology and E Industrial Chemicals nstitute for Occupati Medicine's ChemID Medicine's ChemID	Committee for Risk Asses (ECHA_API) ey) EGL(s)) / Federal Insecticide, Fung / High Production Volume ation Database (IUCLID) ivaluation (NITE) s Notification and Assessmi ional Safety and Health)	sment (ECHA_RAG gicide, and Rodentio Chemicals nent Scheme (NICN D) re (CCID) ronment, Health, ar Production Volume	cide Act NAS) nd Safety Publications e Chemicals Program	
Prepared by		Environmental, Health ar	-		
Revision note		-	n revision date. Cor	ntact info@neb.com for latest revision.	
Revision date		06-May-2023			
This material safe	ety data sheet com	plies with the requireme	nts of Regulation	(EC) No. 1907/2006	

Disclaimer

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## End of Safety Data Sheet