

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	N0423
Product name	pBHS Scal-linearized Control Plasmid
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
<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

3.1 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**

Chemical name	Oral	Dermal	Inhalation
Tris-HCl 1185-53-1	-	216.6 mg/kg bw/day [4] [6]	152.8 mg/m³ [4] [6]
Ethylenediamine tetraacetic acid 60-00-4	-	-	1.5 mg/m³ [5] [6] 3 mg/m³ [5] [7]

#### Notes

Systemic health effects.
Local health effects.
Long term.
Short term.

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

Chemical name	Oral	Dermal	Inhalation
Tris-HCl 1185-53-1	10.8 mg/kg bw/day [4] [6]	-	37.7 mg/m <sup>3</sup> [4] [6]
Ethylenediamine tetraacetic acid 60-00-4	25 mg/kg bw/day [4] [6]	-	0.6 mg/m³ [5] [6] 1.2 mg/m³ [5] [7]

Notes

[4]	Systemic health effects.
[5]	Local 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)	

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Ethylenediamine tetraacetic acid 60-00-4	2.2 mg/L	1.2 mg/L	0.22 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Ethylenediamine tetraacetic acid	-	-	43 mg/L	0.72 mg/kg soil dw	-
60-00-4					

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 and chemical properties				
Physical state	Liquid			
Appearance	Colorless			
Color	No information available			
Odor	Mild.			
Odor threshold	No information available			
Property_	<u>Values</u>	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	200 °C			
Decomposition temperature		None known		

pН	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	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

No information available. Reactivity 10.2. Chemical stability Stable under normal conditions. Stability **Explosion data** Sensitivity to mechanical impact None. Sensitivity to static discharge None. 10.3. 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	I based on chapter 3.1 of the GHS document
ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-gas) ATEmix (inhalation-vapor) ATEmix (inhalation-dust/mist)	99,999.00 mg/kg 99,999.00 mg/kg 99,999.00 ppm 99,999.00 mg/l 99,999.00 mg/l
Delayed and immediate effects as v	vell 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.

11.2.1. Endocrine disrupting properties				
Endocrine disrupting properties	No information available.			
11.2.2. Other information				
Other adverse effects	No information available.			
SECTION 12: Ecological in	nformation			
<u>12.1. Toxicity</u>				
Ecotoxicity				
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.			
12.2 Paraistones and degradability				
12.2. Persistence and degradability				
Persistence and degradability	No information available.			
12.3. Bioaccumulative potential				
Bioaccumulation	There is no data for this product.			
<u>12.4. Mobility in soil</u>				
Mobility in soil	No information available.			
12.5. Results of PBT and vPvB ass	essment			
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

#### <u>IATA</u>

**14.1** UN number or ID number
 Not regulated

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

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA\_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Prepared by	Environmental, Health and Safety
Revision note	SDS is valid 3 years from revision date. Contact 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

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End of Safety Data Sheet