

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	N0418	
Product name	Control Plasmid DNA	
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

3.1SubstancesNot 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.	
4.2. Most important symptoms and effects, both acute and delayedSymptomsNo 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-HCI 1185-53-1	-	216.6 mg/kg bw/day [4] [6]	152.8 mg/m ³ [4] [6]

Notes

[4] [6] Systemic health effects.

Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Tris-HCI	10.8 mg/kg bw/day [4] [6]	-	37.7 mg/m ³ [4] [6]
1185-53-1			

Notes

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

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

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Engineering controls No i

No information available.

Individual protection measures,	
such as personal protective	
equipment	
Eye/face protection	No spec

o 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

Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild.	
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 limits	No data available	
Lower flammability or explosive limits	No data available	
	No data available	None known
Flash point Autoignition temperature	No data available	None known
	NU UALA AVAIIADIE	None known
Decomposition temperature pH	No data available	None known
•	No data available	None known
pH (as aqueous solution) 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	10.2. Chemical stability			
Stability	Stable under normal conditions.			
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. 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.

No information available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

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 v	veil 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	<u>8</u>
11.2.1. Endocrine disrupting prope	erties
Endocrine disrupting properties	No information available.
11.2.2. Other information	
Other adverse effects	No information available.
SECTION 12: Ecological ir	nformation
<u>12.1. Toxicity</u>	
Ecotoxicity	The environmental impact of this product has not been fully investigated.
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.
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

IATA 14.1 UN number or ID number 14.2 Extended Proper Shipping Name	Not regulated Not regulated
 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions 	Not regulated Not regulated Not applicable None
IMDG14.1UN number or ID number14.2Extended Proper ShippingName14.314.3Transport hazard class(es)14.4Packing group14.5Environmental hazard14.6Special precautions for user Special Provisions14.7Maritime transport in bulkaccording to IMO instruments	Not regulated Not regulated Not regulated Not regulated Not applicable None No information available
RID 14.1 UN/ID No 14.2 Extended Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group	Not regulated Not regulated Not regulated Not regulated

Not applicable
None
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable
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

Contact supplier for inventory compliance status Contact supplier for inventory compliance status
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

No information available **Chemical Safety Report**

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-weight		STEL	STEL (Short Term Exposure Limit)	
Ceiling Maximum limit val	ue	*	Skin designation	
+ Sensitizers				
Key literature references and source Agency for Toxic Substances and Dis U.S. Environmental Protection Agency European Food Safety Authority (EFS European Chemicals Agency (ECHA) European Chemicals Agency (ECHA) EPA (Environmental Protection Agence Acute Exposure Guideline Level(s) (A U.S. Environmental Protection Agence U.S. Environmental Protection Agence Food Research Journal Hazardous Substance Database International Uniform Chemical Inform National Institute of Technology and E Australia National Industrial Chemical NIOSH (National Institute for Occupat National Library of Medicine's Chemic National Library of Medicine's PubMer National Toxicology Program (NTP) New Zealand's Chemical Classificatio Organization for Economic Co-operati Organization for Economic Co-operati World Health Organization	ease Registry (ATSDR) y ChemView Database GA) Committee for Risk Asse (ECHA_API) cy) EGL(s)) y Federal Insecticide, Fur y High Production Volume nation Database (IUCLID) Evaluation (NITE) s Notification and Assess ional Safety and Health) D Plus (NLM CIP) d database (NLM PUBME n and Information Databa ion and Development Environ	essment (ECHA_RAC ngicide, and Rodentic e Chemicals ment Scheme (NICN ED) use (CCID) rironment, Health, an h Production Volume	ide Act IAS) d Safety Publications e Chemicals Program	
Prepared by	Environmental, Health a	and Safety		
Revision note	SDS is valid 3 years fro	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

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End of Safety Data Sheet