

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	B0215
Product name	Mspl Methylase Reaction Buffer
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
--	------------	---------	-----------

### Chronic aquatic toxicity

Category 3 - (H412)

### 2.2. Label elements

#### Hazard statements

H412 - Harmful to aquatic life with long lasting effects

#### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment.

P501 - Dispose of contents/ container to an approved waste disposal plant.

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 Substances

### Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)		Specific concentratio n limit (SCL)	r	M-Factor (long-ter m)
Sodium Chloride 7647-14-5	3 - 7	No data available	231-598-3	No data available	-	-	-
Ethylenedia mine tetraacetic acid 60-00-4	1 - 5	No data available	(607-429-00-8) 200-449-4	Eye Irrit. 2 (H319)	-	-	-

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

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapor - mg/L	
Sodium Chloride	3000	10000	No data available	No data available	No data available
7647-14-5					
Ethylenediamine	2000	No data available	No data available	No data available	No data available
tetraacetic acid 60-00-4					

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 m	neasures			
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 delayed         Symptoms       No information available.				
Effects of Exposure	No information available.			
4.3. Indication of any immediate medical attention and special treatment needed				

Treat symptomatically.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Note to physicians

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, inc	luding any incompatibilities			
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.			
Storage class (TRGS 510)	Storage class 10.			
Storage class (TKGS 510)	Storage class to.			
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.					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Sodium Chloride	-	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
7647-14-5				-	-

**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	-	216.6 mg/kg bw/day [4] [6]	152.8 mg/m³ [4] [6]
1185-53-1			
Sodium Chloride	-	295.52 mg/kg bw/day [4] [6]	2068.62 mg/m <sup>3</sup> [4] [6]
7647-14-5		295.52 mg/kg bw/day [4] [7]	2068.62 mg/m <sup>3</sup> [4] [7]

Chemical name	Oral	Dermal	Inhalation
Ethylenediamine tetraacetic acid	-	-	1.5 mg/m³ [5] [6]
60-00-4			3 mg/m <sup>3</sup> [5] [7]
2-Mercaptoethanol	-	0.05 mg/kg bw/day [4] [6]	0.17 mg/m <sup>3</sup> [4] [6]
60-24-2		0.05 mg/kg bw/day [4] [7]	0.17 mg/m <sup>3</sup> [4] [7]

Notes

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

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

Chemical name	Oral	Dermal	Inhalation
Tris-HCI 1185-53-1	10.8 mg/kg bw/day [4] [6]	-	37.7 mg/m³ [4] [6]
Sodium Chloride 7647-14-5	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]	443.28 mg/m <sup>3</sup> [4] [6] 443.28 mg/m <sup>3</sup> [4] [7]
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]
2-Mercaptoethanol 60-24-2	0.025 mg/kg bw/day [4] [6] 0.025 mg/kg bw/day [4] [7]	-	-

Notes

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

### Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Sodium Chloride 7647-14-5	5 mg/L	-	-	-	-
Ethylenediamine tetraacetic acid 60-00-4	2.2 mg/L	1.2 mg/L	0.22 mg/L	-	-
2-Mercaptoethanol 60-24-2	0.00632 mg/L	0.004 mg/L	0.000632 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Sodium Chloride 7647-14-5	-	-	500 mg/L	4.86 mg/kg soil dw	-
Ethylenediamine tetraacetic acid 60-00-4	-	-	43 mg/L	0.72 mg/kg soil dw	-
2-Mercaptoethanol 60-24-2	0.024 mg/kg sediment dw	0.0024 mg/kg sediment dw	60 mg/L	0.908 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**

0.4 Information on bosis abusised a	and chamical anamentics	
9.1. Information on basic physical a		
Physical state	Liquid Colorless	
Appearance	No information available	
Color		
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		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	295 °C	
Decomposition temperature		None known
Η	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	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	None.
10.3. Possibility of hazardous reaction	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 proc	ducts

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

11.1.	Infor	mation o	n hazard classes as	s defined in Reg	gulation (	(EC)	No 1272/2008	_
Inforn	nation	on likel	y routes of exposur	е				

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)	29,332.40 mg/kg
ATEmix (dermal)	152,631.90 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

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chloride	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
Ethylenediamine tetraacetic acid	> 2000 mg/kg (Rat)	-	-

### 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

Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium Chloride	-	LC50: 5560 - 6080mg/L	-	EC50: =1000mg/L (48h,
		(96h, Lepomis		Daphnia magna)
		macrochirus)		EC50: 340.7 - 469.2mg/L
		LC50: =12946mg/L (96h,		(48h, Daphnia magna)
		Lepomis macrochirus)		
		LC50: 6020 - 7070mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =7050mg/L (96h,		
		Pimephales promelas)		
		LC50: 6420 - 6700mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: 4747 - 7824mg/L		
		(96h, Oncorhynchus		
		mykiss)		
Ethylenediamine	EC50: =1.01mg/L (72h,	LC50: 34 - 62mg/L (96h,	-	EC50: =113mg/L (48h,
tetraacetic acid	Desmodesmus	Lepomis macrochirus)		Daphnia magna)
	subspicatus)	LC50: 44.2 - 76.5mg/Ĺ		. ,
	. ,	(96h, Pimephales		
		promelas)		

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

### 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.

Chemical name	PBT and vPvB assessment
Sodium Chloride	The substance is not PBT / vPvB
Ethylenediamine tetraacetic acid	The substance is not PBT / vPvB

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

# SECTION 15: Regulatory information

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

Chemical name	French RG number
Sodium Chloride - 7647-14-5	RG 78

#### **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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ethylenediamine tetraacetic acid - 60-00-4	75.	-

#### **Persistent Organic Pollutants**

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Sodium Chloride - 7647-14-5	Plant protection agent
Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Sodium Chloride - 7647-14-5	Product-type 1: Human hygiene

### 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

#### Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

#### Legend

SVHC: Substances of Very High Concern for Authorization:

LegendSection 8: EXPOSURE COTWATWA (time-weightCeilingMaximum limit val+Sensitizers	ed average)	OTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation
Key literature references and source Agency for Toxic Substances and Dis U.S. Environmental Protection Agence 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 ChemID National Library of Medicine's PubMe National Toxicology Program (NTP) New Zealand's Chemical Classificatio Organization for Economic Co-operat Organization for Economic Co-operat World Health Organization	ease Registry (ATSDR) y ChemView Database GA) Committee for Risk Asses (ECHA_API) cy) EGL(s)) y Federal Insecticide, Fung y High Production Volume nation Database (IUCLID) Evaluation (NITE) Is Notification and Assess tional Safety and Health) D Plus (NLM CIP) d database (NLM PUBMEI an and Information Databas ion and Development Envi ion and Development High	ssment (ECHA_RAC gicide, and Rodentic Chemicals nent Scheme (NICN D) se (CCID) ronment, Health, an Production Volume	tide Act IAS) ad Safety Publications e Chemicals Program
Prepared by	Environmental, Health a	nd Safety	
Revision note	SDS is valid 3 years from	n revision date. Con	tact info@neb.com for latest revision.
Revision date	06-May-2023		
			/ <b></b>

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