

Revision date 08-Dec-2023

# SAFETY DATA SHEET

Version 2

Section 1: Identification		
Product identifier		
Product name	PURExpress Disulfide Bond Enhancer 1	
Product No	P6821	
Other means of identification		
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	This product is for research and development only	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier</u> New England BioLabs (Australia) Pty Ltd 22/270 Ferntree Gully Road Notting Hill, VIC 3168		
E-mail address	info.au@neb.com	
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
National Poisons Centre	0800 764 766 (toll free)	
24 Hour Emergency Phone Number	Chemtrec +65 3163 8374	

# Section 2: Hazard identification

#### **GHS Classification**

Not classified

#### Label elements

Hazard statements Not classified

#### Other hazards which do not result in classification No information available.

Section 3: Composition/information on ingredients			
Non-hazardous ingredients	Proprietary	Balance	

### Section 4: First-aid measures

#### 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.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# Section 5: Fire-fighting measures

#### Suitable 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.

Special exposure hazards in a fire

Specific hazards arising from the No information available. chemical

Protective equipment and precautions for firefighters

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

#### Section 6: Accidental release measures

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

Personal precautions	Ensure adequate ventilation.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
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	Pick up and transfer to properly labeled containers.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# Section 7: Handling and storage

Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
Incompatible materials	None known based on information supplied.		

# Section 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Biological occupational exposure This product, as supplied, does not contain any hazardous materials with biological limits

#### limits

established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Hand 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.	
Environmental exposure controls	No information available.	

# Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

Information on basic physical and Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild.	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	<b>ge</b> No data available	None known
Flash point	No data available	None known
Evaporation rate	No 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	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient Autoignition temperature	No data available 392.78   °C	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Other information		
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	

Liquid Density	
Bulk density	
Particle characteristics	

No information available No information available No information available

Section 10: Stability and re	Section 10: Stability and reactivity			
Reactivity				
Reactivity	No information available.			
Chemical stability				
Stability	Stable under normal conditions.			
Explosion data				
Sensitivity to mechanical impact	None.			
Sensitivity to static discharge	None.			
Possibility of hazardous reactions				
Possibility of hazardous reactions	None under normal processing.			
Conditions to avoid				
Conditions to avoid	None known based on information supplied.			
Incompatible materials				
Incompatible materials	None known based on information supplied.			
Hazardous decomposition products				
Hazardous decomposition products	None known based on information supplied.			

# Section 11: Toxicological information

#### Acute toxicity

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	No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document<br/>ATEmix (oral)50,400.00<br/>mg/kg

ATEmix (dermal)	40,000.00	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

**Component Information** 

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.			
Data used to identify the health effects	Refer to Section 16 for Key literature references and sources for data used to compile the SDS.			

# Section 12: Ecological information

#### **Ecotoxicity**

Aquatic ecotoxicity

Unknown aquatic toxicity	0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Terrestrial ecotoxicity	There is no data for this product.
Persistence and degradability	No information available.

### **Bioaccumulative potential**

#### Bioaccumulation

**Component Information** 

Mobility in soil

Mobility

No information available.

#### Other adverse effects

No information available.

# Section 13: Disposal considerations

#### Waste treatment methods

Waste from residues/unused	Not applicable.
products	Not Hazardous.
Contaminated packaging	Not applicable. Not Hazardous.

# Section 14: Transport information

IATA Not regulated

Section 15: Regulatory information

IMDG Not regulated

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

Regulatory information	
EPA New Zealand HSNO approval code or group standard	To be determined
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

#### **International Regulations**

#### The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
NZIoC	Contact supplier for inventory compliance status.
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.

Legend:

**NZIOC** - New Zealand Inventory of Chemicals

**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

### Section 16: Other information

Key or legend to a Legend Section 8:	Environmental, Hea 978-927-5054 08-Dec-2023 SDS is valid 3 years d data since last publication. bbreviations and acronyms used in t EXPOSURE CONTROLS/PERSONAL TWA (time-weighted average)	s from revision date.	Contact info@neb.com for latest revision t STEL (Short Term Exposure Limit)			
	Maximum limit value	*	Skin designation			
C	Carcinogen		-			
C Carcinogen   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)   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 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 Development Environment, Health, and Safety Publications   Organization for Economic Co-operation and Development Environment, Health, and Safety Publications   Organization for Economic Co-operation and Development Screenin						

World Health Organization

#### **Disclaimer**

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End of Safety Data Sheet