

Revision date 08-Dec-2023

SAFETY DATA SHEET

Version 2

Section 1: Identification		
Product identifier		
Product name	Alul Methyltransferase Reaction Buffer	
Product No	B0220	
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	
Supplier New England BioLabs (Australia) Pty 22/270 Ferntree Gully Road Notting Hill, VIC 3168	Ltd	
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	

Category 3

Section 2: Hazard identification

GHS Classification

Chronic aquatic toxicity

Label elements

Hazard statements Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention

Avoid release to the environment

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

No information available.

Section 3: Composition/information on ingredients

Chemical name		CAS No.		Weight-%	
Ethylenediamine tetraacetic acid		60-00-4		0 - 10%	
Non-hazardous ingredients		Proprietary		Balance	

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 chemical	No information available.

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	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.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch 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 c	hemical properties	
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 rang	eNo 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	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
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	No data available	None known
Autoignition temperature	295 °C	
Decomposition temperature		None known

None known None known

Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No information available.
Oxidizing properties	No information available.
Other information Softening point Molecular weight VOC content Liquid Density Bulk density Particle characteristics	No information available No information available No information available No information available No information available No information available

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	<u>S</u>

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

ATEmix (oral)	68,436.90	
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

Component Information

Oral LD50	Dermal LD50	Inhalation LC50	
> 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.
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	Harmful to aquatic life with long lasting effects.
Unknown aquatic toxicity	0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethylenediamine tetraacetic acid	EC50: =1.01mg/L (72h,	LC50: 34 - 62mg/L (96h,	EC50: =113mg/L (48h, Daphnia
	Desmodesmus subspicatus)	Lepomis macrochirus)	magna)
		LC50: 44.2 - 76.5mg/L (96h,	
		Pimephales promelas)	

Terrestrial ecotoxicity	There is no data for this product.	
Persistence and degradability	No information available.	
Bioaccumulative potential		
Bioaccumulation	There is no data for this product.	
Mobility in soil		
Mobility	No information available.	
Other adverse effects		

No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products	Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Environmentally hazardous substances – if the substance, or if it contains a component that is hazardous to the aquatic environment or bioaccumulative and not rapidly degradable, then any component that is bioaccumulative and not rapidly degradable must be removed. The product may only be discharged into the environment if an environmental exposure limit has been set for the substance (or a component of the substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the environmental exposure limit.
Contaminated packaging	For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from. Packages may only be reused or recycled if: - the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance; - or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

Section 14: Transport information

Not regulated

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

Section 15: Regulatory 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

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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 informa	tion		
Prepared by		Environmental, Health and Safety		
		978-927-5054		
Revision date		08-Dec-2023		
Revision note		SDS is valid 3 years from revision date. Contact info@neb.com for latest revision		
	ated data since last p	d acronyms used in t	ha safatu data sl	hoot
		NTROLS/PERSONAL		leet
TWA	TWA (time-weigh		STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit va		*	Skin designation
С	Carcinogen			5
		ces for data used to sease Registry (ATSD		
		cy ChemView Databas		
	Safety Authority (EFS			
	ental Protection Agen			
	Guideline Level(s) (A			
		y Federal Insecticide,		odenticide Act
		y High Production Vo	lume Chemicals	
Food Research				
	stance Database			
		nation Database (IUC	LID)	
	e of Technology and	Is Notification and As	socomont Schome	
		tional Safety and Hea		(NCNAS)
	of Medicine's Cheml			
		ed database (NLM PU	BMED)	
	ogy Program (NTP))	
		on and Information Da	tabase (CCID)	
				alth, and Safety Publications
				Volume Chemicals Program
		tion and Development	Screening Inform	ation Data Set
World Health Or	ganization			
Disclaimer				

Disclaimer

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End of Safety Data Sheet