

SAFETY DATA SHEET

Revision date 09-Apr-2024

Version 4

Section 1: Identification			
Product identifier			
Product name	NEB Stable Competent E.coli (High Efficiency)		
Product No	C3040		
Other means of identification			
Synonyms	None		
Pure substance/mixture	Mixture		
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 manufacturer or importer	-		
<u>Supplier</u> New England BioLabs (Australia) Pty 22/270 Ferntree Gully Road Notting Hill, VIC 3168	Ltd		
For further information, please contact			
Contact Point	Product Safety Department		
E-mail address	info.au@neb.com		
Emergency telephone number			
Company Phone Number	978-927-5054, 800-632-5227 (toll free)		
24 Hour Emergency Phone Number Australian Poisons Information:	Chemtrec +65 3163 8374 131 126		

Section 2: Hazard(s) identification

GHS Classification Not classified

Label elements

Hazard statements

Not classified

Other hazards which do not result in classification

Per Centers for Disease Control and Prevention (CDC) Guidelines (Biosafety in Microbiological and Biomedical Laboratories, 5th Edition), this material can be handled at Biological Safety Level One (BSL-1) containment.

Biological Safety Level One (BSL-1) containment, using standard microbiological practices, is suitable for work involving well-characterized microbiological organisms not known to consistently cause disease in immunocompetent adult humans, and present minimal potential hazard to laboratory personnel and the environment.

Section 3: Composition and information on ingredients

Chemical name		CAS No.		Weight-%	
Calcium Chloride		10043-52-4 0 - 10%			
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 medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		

Section 5: Firefighting 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 precaution	ons 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 relea	ise measures		
Personal precautions, protective eq	uipment 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.		
Precautions to prevent secondary h	azards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Section 7: Handling and st	orage		
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, includi	ng 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 contro	ols and 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.
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.
Thermal hazards	No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid Colorless No information available None. No information available	
Property_	Values	Remarks • Method
pH	7.5	
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	No data available	
Lower flammability or explosive limits	no data avaliable	
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	215 °C	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
NOO IIIII	No. information according to	

VOC content Particle characteristics 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 impac Sensitivity to static discharge			
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>.</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.	
Numerical measures of toxicity - Product Information		

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	49,342.40	mg/kg
ATEmix (dermal)	78,523.80	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

Calcium Chloride	= 1000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
Calcium Chionde	= 1000 mg/kg (Rat)	> 5000 mg/kg (Kabbit)	-
See section 16 for terms and abbi	reviations		·
Delayed and immediate effects	as well as chronic offects from	n short and long torm expess	ro.
Delayed and minediate effects	as well as childric effects from	in short and long-term exposu	
Skin corrosion/irritation	No information available.		
Serious eye damage/eye irritatio	n No information available.		
, , ,			
Respiratory or skin sensitization	n No information available.		
	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 reported experies	No information available.		
STOT - repeated exposure			
	.		
Aspiration hazard	No information available.		

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.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Calcium Chloride	-	LC50: =10650mg/L (96h, Lepomis macrochirus)		LC50: 2280000 - 3948000µg/L (48h, Daphnia magna)

Terrestrial ecotoxicityThere is no data for this product.

Persistence and degradability

Persistence and degradability No in

No	o information	available.

Bioaccumulative	potential

Bioaccumulation	There is no data for this product.	
<u>Mobility</u>		
Mobility	No information available.	
Other adverse effects		
Other adverse effects	No information available.	
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Section 13: Disposal considerations

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.

See section 8 for more information

Section 14: Transport information		
ADG	Not regulated	
IATA_	Not regulated	
IMDG	Not regulated	

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

Section 15: Regulatory information

Regulatory information

National regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP) No poisons schedule number allocated

Australian Industrial Chemicals Introduction Scheme (AICIS)

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Calcium Chloride - 10043-52-4	Present	-

Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

International Inventories	
AIIC	Contact supplier for inventory compliance status.
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.
KECI	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.

Legend:

AICS - Australian Inventory of Chemical Substances
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

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

Section 16: Other information

Revision date

09-Apr-2024

Revision Note

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Australian Industrial Chemicals Introduction Scheme (AICIS)

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)

U.S. 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 Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development High Production volume Chemica Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

End of Safety Data Sheet