

Revision date 25-Mar-2022

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Version 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product No	T3014
Product name	Monarch® gDNA binding buffer
Pure substance/mixture	Mixture
Contains Guanidine Thiocyanate, Isc	propyl Alcohol, Triton X-100
1.2. Relevant identified uses of the	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 s	afety data sheet
Supplier Address New England BioLabs 240 County Road Ipswich, MA 01938 USA For further information, please contac	<u>ct</u>
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

Europe +1 978-380-2125	
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008	
Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

2.2. Label elements

Contains Guanidine Thiocyanate, Isopropyl Alcohol, Triton X-100



Signal word Warning

Hazard statements

H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects

H318 - Causes serious eye damage

H313 - May be harmful in contact with skin

H319 - Causes serious eye irritation

H226 - Flammable liquid and vapor

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower] P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

2.3. Other hazards

No information available.

Endocrine Disruptor Information

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Triton X-100	Endocrine disrupting properties	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical	Weight-%	REACH registration	EC No (EU Index	Classification according to	Specific	M-Facto	M-Factor
name		number	No)		concentratio		(long-ter
				1272/2008 [CLP]	n limit (SCL)		m)
Guanidine	30 - 60	No data available	209-812-1	Acute Tox. 4 (H302)	-	-	-
Thiocyanate				Aquatic Chronic 3 (H412)			
593-84-0				Eye Irrit. 2 (H319)			
Trade Secret	5 - 10	No data available	(603-117-00-0)	Eye Irrit. 2 (H319)	-	-	-
			200-661-7	Flam. Liq. 2 (H225)			
Triton X-100	1 - 5	No data available	-	No data available	-	-	-
9002-93-1							

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	
Trade Secret	1870	4059	No data available	30.1002	No data available
Triton X-100 9002-93-1	1800 1700	No data available	No data available	No data available	No data available

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	Weight-%
Triton X-100	9002-93-1	1 - 5

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a physician.
Inhalation	If symptoms persist, call a physician. Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	Prolonged contact may cause redness and irritation. Vapors may cause drowsiness and dizziness.
4.3. Indication of any immediate m	edical attention and special treatment needed
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
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	e substance or mixture
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
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	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention! Corrosive material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
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	Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

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

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Trade Secret	-	TWA: 200 ppm	TWA: 200 ppm	STEL: 1225.0 mg/m ³	TWA: 400 ppm
		TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 980.0 mg/m ³	TWA: 999 mg/m ³
		STEL 800 ppm	STEL: 400 ppm	-	STEL: 500 ppm
		STEL 2000 mg/m ³	STEL: 1000 mg/m ³		STEL: 1250 mg/m ³

Chemical name		Cyprus	Czech Republic	Denmark	Es	stonia	Finland
Trade Secret		-	TWA: 500 mg/m ³	TWA: 200 ppm	TWA:	150 ppm	TWA: 200 ppm
			Ceiling: 1000 mg/m ³	TWA: 490 mg/m ³		350 mg/m ³	TWA: 500 mg/m ³
			D*	STEL: 400 ppm	STEL:	250 ppm	STEL: 250 ppm
				STEL: 980 mg/m ³	STEL: 6	600 mg/m ³	STEL: 620 mg/m ³
Chemical name		France	Germany TRGS	Germany DFG	Gr	eece	Hungary
Trade Secret	STE	L: 400 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA:	400 ppm	TWA: 500 mg/m ³
	STEL	: 980 mg/m ³	TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 9	980 mg/m ³	STEL: 1000 mg/m ³
				Peak: 400 ppm	STEL:	500 ppm	b*
				Peak: 1000 mg/m ³	STEL: 1	225 mg/m ³	
Chemical name		Ireland	Italy MDLPS	Italy AIDII	L	atvia	Lithuania
Trade Secret	TW	A: 200 ppm	-	TWA: 200 ppm	TWA: 3	850 mg/m ³	TWA: 150 ppm
	STE	L: 400 ppm		TWA: 492 mg/m ³	STEL: 6	600 mg/m ³	TWA: 350 mg/m ³
		Sk*		STEL: 400 ppm			STEL: 250 ppm
				STEL: 983 mg/m ³			STEL: 600 mg/m ³
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
Trade Secret		-	-	-		100 ppm	STEL: 1200 mg/m ³
						245 mg/m³	TWA: 900 mg/m ³
						150 ppm	skóra*
					STEL: 30)6.25 mg/m ³	
Chemical name		Portugal	Romania	Slovakia		ovenia	Spain
Trade Secret	TW	A: 200 ppm	TWA: 81 ppm	TWA: 200 ppm		200 ppm	TWA: 200 ppm
	STE	L: 400 ppm	TWA: 200 mg/m ³	TWA: 500 mg/m ³		500 mg/m³	TWA: 500 mg/m ³
			STEL: 203 ppm	Ceiling: 1000 mg/m ³		400 ppm	STEL: 400 ppm
			STEL: 500 mg/m ³		STEL: 1	000 mg/m ³	STEL: 1000 mg/m ³
Chemical name		SI	weden	Switzerland		Uni	ted Kingdom
Trade Secret			150 ppm	TWA: 200 ppm			/A: 400 ppm
			350 mg/m ³	TWA: 500 mg/m ³			A: 999 mg/m ³
1		Väaladande	e KGV: 250 ppm			EL: 500 ppm	
			KGV: 600 mg/m ³	STEL: 1000 mg/r			_: 1250 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulg	garia	Croatia		Czech Republic
Trade Secret	-	-		-	50 mg/L - blo		-
					(Acetone) - at		
					end of the work		
					50 mg/L - uri		
					(Acetone) - at		
					end of the work	shift	
Chemical name	Denmark	Finland	Fra	nce	Germany DF	G	Germany TRGS
Trade Secret	-	-		-	25 mg/L (who		25 mg/L (whole
					blood - Acetone	end	blood - Acetone end
					of shift)		of shift)
					25 mg/L (urin		
					Acetone end of	shift)	Acetone end of shift)
					25 mg/L - BAT		
					of exposure or		
					of shift) urin		
					25 mg/L - BAT		
					of exposure or		
					of shift) bloc	d	
Chemical name	Hungary	Irelan	-	Italy	/ MDLPS		Italy AIDII
Trade Secret	-	40 mg/L (urine	- Acetone		-		g/L - urine (Acetone)
		end of shift a	t end of			- er	nd of shift at end of
		workwe	ek)				workweek
Chemical name	Latvia	Luxembo	burg	R	omania		Slovakia
Trade Secret	-	-		50 mg/L -	urine (Acetone)		-
					d of shift		
Chemical name	Slovenia	Spair	n	Sw	itzerland	l	United Kingdom

T3014 - Monarch® gDNA binding buffer

Trade Secret	25 mg/L - blood (Acetone)	40 mg/L (urine - Acetone	25 mg/L (urine - Acetone	-
	- at the end of the work	end of workweek)	end of shift)	
	shift		0.4 mmol/L (urine -	
	25 mg/L - urine (Acetone)		Acetone end of shift)	
	- at the end of the work		25 mg/L (whole blood -	
	shift		Acetone end of shift)	
			0.4 mmol/L (whole blood -	
			Acetone end of shift)	

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls	No information available.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
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	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<u>3.1. mormation on basic physical a</u>	nu chemical properties
Physical state	Liquid
Appearance	Clear
Color	No information available
Odor	None.
Odor threshold	No information available
Property_	Values
Melting point / freezing point	No data available
Initial boiling point and boiling rang	eNo data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Flash point	> 41 °C
Autoignition temperature	399 °C

Remarks • Method None known None known None known None known

	None known
8	
No data available	None known
No data available	
No data available	
No data available	None known
No information available	
No information available	
	No data available No data 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 None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agent.

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. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation.
Ingestion	Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. Coughing and/ or wheezing. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral)	1,144.20 mg/kg
ATEmix (dermal)	31,173.10 mg/kg
ATEmix (inhalation-vapor)	231.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat)6 h
Triton X-100	= 1800 mg/kg (Rat)	-	-
	= 1700 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage. Causes burns. Classification based on data available for ingredients.
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	
Trade Secret	EC50: >1000mg/L (96h,	LC50: =9640mg/L (96h,	-	EC50: =13299mg/L (48h,
	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: =11130mg/L (96h,		
	EC50: >1000mg/L (72h,	Pimephales promelas)		
	Desmodesmus	LC50: >1400000µg/L		
	subspicatus)	(96h, Lepomis		
		macrochirus)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient	
Trade Secret	0.05	

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Guanidine Thiocyanate	The substance is not PBT / vPvB
Trade Secret	The substance is not PBT / vPvB PBT assessment does
	not apply

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	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

IATA 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions	UN1993 3 II Not applicable None
IMDG 14.1 UN number or ID number	Not regulated
 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions 14.7 Maritime transport in bulk according to IMO instruments 	Not regulated Not regulated Not applicable None No information available
<u>RID</u> 14.1 UN/ID No	Not regulated
14.2	0
14.3 Transport hazard class(es) 14.4 Packing group	Not regulated Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user Special Provisions	None
ADR	
14.1 UN number or ID number 14.2	Not regulated
 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 applicable
Special Provisions	None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	
Trade Secret	RG 84	

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 authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) 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	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Trade Secret -	75.	-
Triton X-100 - 9002-93-1	-	42.

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name Biocidal Products Regula		Biocidal Products Regulation (EU) No 528/2012 (BPR)	
Trade Secret - Product-type 2: Disinfectants and algaecides		Product-type 2: Disinfectants and algaecides not intended	
		for direct application to humans or animals Product-type 4:	
		Food and feed area 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

T3014 - Monarch® gDNA binding buffer

ENCS	- Japan Existing and New Chemical Substances
IECOC	China Inventory of Eviating Chamical 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

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H320 - Causes eye irritation

H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	*
+	Sensitizers	

STEL (Short Term Exposure Limit) Skin designation

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) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC) European Chemicals Agency (ECHA) (ECHA_API) 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 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 Information Database (CCID) 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 Screening Information Data Set World Health Organization Prepared by Environmental, Health and Safety **Revision note** SDS is valid 3 years from revision date. Contact info@neb.com for latest revision. **Revision date**

25-Mar-2022

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

EU SDS version information - EGHS GHS Revision 8

Europe

Full process, including GHS and Transportation Wizards

Full text of H-Statements referred to under
section 3H225 - Highly flammable liquid and vapor H302 - Harmful if swallowed H319 - Causes serious eye
irritation H320 - Causes eye irritation H412 - Harmful to aquatic life with long lasting effects

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
Guanidine Thiocyanate	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412) Eye Irrit. 2 (H319)	
Trade Secret	Eye Irrit. 2 (H319) Flam. Liq. 2 (H225)	

Chemical name	CAS No	French RG number
Trade Secret		RG 84