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SAFETY DATA SHEET

Date: March 10, 2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Go-Go™ Fast DNA Gel Running Buffer, 50X					
Catalog Number:	41039-200ML, 41039-500ML, 41039-1L					
Unit Size:	200 mL / 500 mL / 1L					
Manufacturer/Supplie	r: Biotium, Inc.					
	46117 Landing Parkway, Fremont, CA 94538, USA					
	Phone: 1-510-265-1027, Fax: 1-510-265-1352					
	Web: http://www.biotium.com					

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

2. HAZARDS IDENTIFICATION

GHS classification		
Signal word	None	
Health hazards	None	
Physical hazards	None	
Hazard statements	None	
Precautionary staten GHS hazard pictogra	None None	
1 0		

WHMIS classification None

NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0

Classification according to Regulation (EC) No 1272/2008[CLP] NoneLabeling according to Regulation (EC) No 1272/2008[CLP]Hazard pictogramNoneSignal wordNoneHazard statementsNonePrecautionary statementsNone

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Weight %	Classification
Triethanolamine	102-71-6	203-049-8	10-30%	Not classified

4. FIRST- AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.



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If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist, or gas. Remove all sources of ignition. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Substance: Triethanolamine

CAS no. 102-71-6

Country	Australia	Austria	Belgium	Canada-	Canada-	Denmark	European	Finland	France
				Ontario	Quebec		Union		
Limit value,8hours	5 mg/m ³	0.8 ppm 5 mg/m ³ inhalable aerosol	5 mg/m ³	0.5 ppm 3.1 mg/m ³	5 mg/m ³	0.5 ppm 3.1 mg/m ³		5 mg/m ³	
Limit value, short term		0.16 ppm 10 mg/m ³ inhalable aerosol				1 ppm 6.2 mg/m ³			

Country	Germany (AGS)	Germany (DFG)	Hungary	Ireland	Japan	Netherlands	New Zealand	Norway	Singapore
Limit	1 mg/m ³	1 mg/m ³		5			5 mg/m ³	5 mg/m ³	5 mg/m ³
value,8hours	(1)	(1)		mg/m ³			-	-	-
Limit value,	1 mg/m ³	1 mg/m ³							
short term	(1)(2)	(1)(2)							



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Country	South	South	Spain	Sweden	Switzerland	United	USA-	USA-	USA-ACGIH
	Africa	Korea	-			Kingdom	NIOSH	OSHA	TLV-TWA
Limit	10		5	0.8 ppm	5 mg/m ³ (1)				5 mg/m ³
value,8hours	mg/m ³		mg/m ³	5 mg/m ³					-
Limit value,				1.6 ppm	5 mg/m ³				
short term				10 mg/m ³	(1)(2)				

Germany (AGS) (1) Inhalable fraction (2) 15 minutes average value

Germany (DFG) (1) Inhalable fraction (2) 15 minutes average value

Sweden (1) 15 minutes average value

Switzerland (1) Inhalable fraction (2) 15 minutes average value

Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Go-Go™ Fast DNA Gel
	Running Buffer, 50X
Appearance	Amber solution
Odor	No data available
Odor threshold	No data available
pH	8.3-8.6
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions. **Possibility of hazardous reactions** No data available **Conditions to avoid** Heat, flames and sparks.



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Materials to avoid No data available Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Triethanolamine)

LD50 Oral - Rat - male and female - 6,400 mg/kg (OECD Test Guideline 401) Inhalation: No data available Acute toxicity estimate Dermal - 2,500 mg/kg LD50 Dermal - Rabbit - > 2,000 mg/kg (OECD Test Guideline 402) No data available

Skin corrosion/irritation (Triethanolamine)

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation (Triethanolamine)

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization (Triethanolamine)

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity (Triethanolamine)

Test Type: In vitro mammalian cell gene mutation test (Triethanolamine) Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

Test Type: sister chromatid exchange assay (Triethanolamine) Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA)

Test Type: Mutagenicity (mammal cell test): chromosome aberration. (Triethanolamine) Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative

Test Type: Ames test (Triethanolamine) Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471



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Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available Specific target organ toxicity - single exposure (Globally Harmonized System) No data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Indestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. **Additional Information** Repeated dose toxicity (Triethanolamine) - Rat - male and female - Oral - 91 Days - NOAEL (No observed adverse effect level) - 1,000 mg/kg

Repeated dose toxicity (Triethanolamine)- Rat - male - Dermal - 90 Days - NOAEL (No observed adverse effect level) - 125 mg/kg

RTECS: KL9275000 (Triethanolamine)

Kidney injury may occur., Dermatitis

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

Toxicity (Triethanolamine)

Toxicity to fish (Triethanolamine) - flow-through test LC50 - Pimephales promelas (fathead minnow) - 11,800 mg/l - 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates (Triethanolamine) - static test EC50 - Ceriodaphnia dubia (water flea) - 609.88 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae (Triethanolamine) - static test ErC50 - Desmodesmus subspicatus (green algae) - 216 mg/l - 72 h (DIN 38412) Remarks: (ECHA)

Toxicity to bacteria (Triethanolamine) - static test IC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) (Triethanolamine) - semi-static test NOEC - Daphnia magna (Water flea) - 16 mg/l - 21 d (OECD Test Guideline 211)

Persistence and degradability (Triethanolamine)

Biodegradability aerobic - Exposure time 5 d Result: ca.100 % - rapidly biodegradable Remarks: (ECHA)

Theoretical oxygen demand 2,040 mg/g Remarks: (IUCLID)

Bioaccumulative potential (Triethanolamine)

Bioaccumulation Cyprinus carpio (Carp) - 6 Weeks at 25 °C - 0.25 mg/l (Triethanolamine)

Bioconcentration factor (BCF): < 3.9 (OECD Test Guideline 305)

Cyprinus carpio (Carp) - 6 Weeks

at 25 °C - 2.5 mg/l (Triethanolamine)

Bioconcentration factor (BCF): < 0.4 (OECD Test Guideline 305)

Mobility in soilNo information availableResults of PBT and vPvB assessmentNo information availableOther adverse effectsNo information availableAdditional informationNo information available

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local, state, or national regulation for proper disposal.

14. TRANSPORT INFORMATION

 IATA, IMDG, DOT (US), TDG
 Not dangerous goods during transportation

 UN number
 None

 UN proper shipping name
 None

 Transport hazard class
 None

 Packing group
 None

 Environmental hazards
 None

 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
 None

 Special precaution for user
 None

15. REGULATION INFORMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312: No chemicals were found

WHMIS Hazard Class None

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008 Refer to section 2 and section 3 Prepared by: Regulatory Department Biotium Inc.



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Version no. 1 Revision date (Initials) Reason for revision N/A

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