

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0059

Nucleic dotMETRIC Basic Kit, G-bioscience

Size: 1 kit



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/09/2014 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Nucleic Acid Dilution Buffer

Product code : 102N

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Research and development

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
sodium acetate	acetic acid sodium salt / acetic acid sodium salt, anhydrous / acetic acid, sodium salt / anhydrous sodium acetate / E262 / FEMA number 3024 / sodium acetate / sodium acetate, anhydrous	(CAS-No.) 127-09-3	2 - 5	Not classified

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

06/28/2019 EN (English US) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nucleic Acid Dilution Buffer	
No additional information available	
sodium acetate (127-09-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m³)	3 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

06/28/2019 EN (English US) 2/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : No data available Odor No data available : No data available Odor threshold : No data available рΗ : Not applicable Melting point Freezing point : No data available Boiling point No data available Flash point : No data available : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density : No data available Solubility : No data available Log Pow : No data available Auto-ignition temperature : No data available No data available Decomposition temperature : No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosion limits No data available Explosive properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing properties

The product is non-reactive under normal conditions of use, storage and transport.

: No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

06/28/2019 EN (English US) 3/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sodium acetate (127-09-3)	
LD50 oral rat	5200 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Literature study, Dermal)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

sodium acetate (127-09-3)	
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	> 1000 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 1000 mg/l (ISO 10253, 72 h, Skeletonema costatum, Salt water, Experimental value, GLP)

12.2. Persistence and degradability

sodium acetate (127-09-3)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	0.675 g O₂/g substance

12.3. Bioaccumulative potential

sodium acetate (127-09-3)	
BCF other aquatic organisms 1	3.162 (BCFWIN, Calculated value)
Log Pow	-3.72 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

sodium acetate (127-09-3)	
Log Koc	0 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Waste treatment methods.

06/28/2019 EN (English US) 4/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

sodium acetate (127-09-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/11/2017

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

06/28/2019 EN (English US) 5/5



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/09/2014 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Nucleic Dye

Product code : 116N

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Research and development

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4 H227 Combustible liquid

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H227 - Combustible liquid

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 - In case of fire: Use media other than water to extinguish.

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
ethanol	ethanol (ethyl alcohol) / ethanol, anhydrous, undenatured / ethyl alcohol	(CAS-No.) 64-17-5	10 - 50	Flam. Liq. 2, H225

06/28/2019 EN (English US) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
methylene blue, trihydrate	3,7-	(CAS-No.) 7220-79-3	2 - 5	Acute Tox. 4 (Oral), H302
	bis(dimethylamino)phenazathioniu m chloride, trihydrate e / 3,7-			Aquatic Acute 2, H401
	bis(dimethylamino)phenothiazin-5-			
	ium chloride, trihydrat / 3,9- bis(dimethylamino)phenazothioniu			
	mchloride, trihydrate chloride,			
	trihydrate / 3H-phenothiazine, 7- (dimethylamino)-3-(mehylimino)-,			
	3-metho / aizen methylene blue			
	BH, trihydrate / aizen methylene			
	blue FZ, trihydrate / basic blue 9, trihydrate / basic lake blue,			
	trihydrate / blue 9, basic, trihydrate			
	/ C.I.52015, trihydrate / C.I.basic blue 9, trihydrate / C.I.basic blue,			
	trihydrate / calcozine blue ZF,			
	trihydrate / chromosmon, trihydrate / D and C blue number 1, trihydrate			
	/ duasyn basic blue IAD, trihydrate			
	/ ext D and C blue nr 1, trihydrate /			
	external blue 1, trihydrate / hidaco methylene blue salt free, trihydrate			
	/ leather pure blue HB, trihydrate /			
	methylene blue 2B, trihydrate / methylene blue 2BF, trihydrate /			
	methylene blue 2BN, trihydrate /			
	methylene blue 2BP, trihydrate /			
	methylene blue 2BZF, trihydrate / methylene blue A extra, trihydrate /			
	methylene blue A, trihydrate /			
	methylene blue B extra, trihydrate / methylene blue B, trihydrate /			
	methylene blue BB extra, trihydrate			
	/ methylene blue BB, trihydrate / methylene blue BBA, trihydrate /			
	methylene blue BD, trihydrate /			
	methylene blue BG, trihydrate /			
	methylene blue BP, trihydrate / methylene blue BPC, trihydrate /			
	methylene blue BX, trihydrate /			
	methylene blue BZ, trihydrate / methylene blue chloride, trihydrate			
	/ methylene blue D, trihydrate /			
	methylene blue DAB 8, trihydrate / methylene blue extra D, trihydrate /			
	methylene blue FZ, trihydrate /			
	methylene blue FZP, trihydrate /			
	methylene blue G, trihydrate / methylene blue GS, trihydrate /			
	methylene blue GSF, trihydrate /			
	methylene blue GZ, trihydrate / methylene blue HGG, trihydrate /			
	methylene blue I, trihydrate /			
	methylene blue IAD, trihydrate /			
	methylene blue JFA, trihydrate / methylene blue N, trihydrate /			
	methylene blue NF, trihydrate /			
	methylene blue NZ, trihydrate / methylene blue polychrome,			
	trihydrate / methylene blue R,			
	trihydrate / methylene blue SG, trihydrate / methylene blue SP,			
	trihydrate / methylene blue T50,			
	trihydrate / methylene blue USP			
	XII, trihydrate / methylene blue ZF, trihydrate / methylene blue ZX,			
	trihydrate / methylene blue, zinc			
	free, trihydrate / methylthionine chloride, trihydrate /			
	methylthionine, trihydrate /			
	methylthioninium chloride,			
	trihydrate / mitsui methylene blue, trihydrate / phenothiazin-5-ium,			
	3,7-bis(dimethylamino)-, chloride,			
	trihy / phenothiazine, trihydrate / sandocryl blue BRL, trihydrate /			
	Janacon yr brae DINE, thiriyarate /			
	schultz No. 1038, trihydrate /			
	solvent blue 8, trihydrate / swiss			
6/28/2019	solvent blue 8, trihydrate / swiss blue, trihydrate / tetramethylene			2/8
06/28/2019	solvent blue 8, trihydrate / swiss blue, trihydrate / tetramethylene blue, tElly(Eate)ish US) tetramethylthionine chloride,			2/8
06/28/2019	solvent blue 8, trihydrate / swiss blue, trihydrate / tetramethylene blue, tElly(Æatelish US) tetramethylthionine chloride, trihydrate / urolene blue, trihydrate			2/8
06/28/2019	solvent blue 8, trihydrate / swiss blue, trihydrate / tetramethylene blue, tElly(Eate)ish US) tetramethylthionine chloride,			2/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
sodium acetate	acetic acid sodium salt / acetic acid sodium salt, anhydrous / acetic acid, sodium salt / anhydrous sodium acetate / E262 / FEMA number 3024 / sodium acetate / sodium acetate, anhydrous	(CAS-No.) 127-09-3	2-5	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

06/28/2019 EN (English US) 3/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nucleic Dye	
No additional information available	
methylene blue, trihydrate (7220-79-3)	
No additional information available	
ethanol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH STEL (ppm)	1000 ppm
sodium acetate (127-09-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m³)	3 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
--

Physical state : Liquid Color : Blue

Odor : No data available
Odor threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : 65 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility : No data available : No data available Log Pow Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available

06/28/2019 EN (English US) 4/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

methylene blue, trihydrate (7220-79-3)			
ATE US (oral)	500 mg/kg body weight		
ethanol (64-17-5)			
LD50 oral rat 10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)			
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)		
LC50 inhalation rat (mg/l)	> 20 mg/l (4 h, Rat, Inhalation)		
sodium acetate (127-09-3)			
LD50 oral rat 5200 mg/kg (Rat, Literature study, Oral)			
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Literature study, Dermal)		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		

Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified

IARC group	

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated : Not classified

exposure

ethanol (64-17-5)

Aspiration hazard : Not classified Viscosity, kinematic : No data available

06/28/2019 EN (English US) 5/8

1 - Carcinogenic to humans

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

methylene blue, trihydrate (7220-79-3)			
LC50 fish 1	18 mg/l (96 h, Mystus vittatus, Anhydrous form)		
EC50 Daphnia 1	2.26 mg/l (48 h, Daphnia magna, Anhydrous form)		
ethanol (64-17-5)			
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)		
EC50 Daphnia 1	9300 mg/l (48 h, Daphnia magna, Pure substance)		
sodium acetate (127-09-3)			
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)		
EC50 Daphnia 1	> 1000 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimenta value, GLP)		
ErC50 (algae)	> 1000 mg/l (ISO 10253, 72 h, Skeletonema costatum, Salt water, Experimental value, GLP)		

12.2. Persistence and degradability

methylene blue, trihydrate (7220-79-3)			
Persistence and degradability	Biodegradability in water: no data available.		
ethanol (64-17-5)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.		
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance		
ThOD	2.1 g O ₂ /g substance		
BOD (% of ThOD) 0.43			
sodium acetate (127-09-3)			
Persistence and degradability	Readily biodegradable in water.		
Chemical oxygen demand (COD)	$0.675 \text{ g O}_2/\text{g substance}$		

12.3. Bioaccumulative potential

methylene blue, trihydrate (7220-79-3)			
Bioaccumulative potential	Not bioaccumulative.		
ethanol (64-17-5)			
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)		
Log Pow	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
sodium acetate (127-09-3)			
BCF other aquatic organisms 1	3.162 (BCFWIN, Calculated value)		
Log Pow	-3.72 (Calculated, KOWWIN)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		

12.4. Mobility in soil

ethanol (64-17-5)		
Surface tension 0.0245 N/m (20 °C)		
Ecology - soil Highly mobile in soil.		
sodium acetate (127-09-3)		
Log Koc 0 (log Koc, SRC PCKOCWIN v1.66, Calculated value)		
Log Koc	0 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	

12.5. Other adverse effects

No additional information available

06/28/2019 EN (English US) 6/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Waste treatment methods.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

methylene blue, trihydrate (7220-79-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

sodium acetate (127-09-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/11/2017

06/28/2019 EN (English US) 7/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H225	Highly flammable liquid and vapour	
H227	Combustible liquid	
H302	Harmful if swallowed	
H401	Toxic to aquatic life	

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

06/28/2019 EN (English US) 8/8



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/01/2017 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : Nucleic Test strips

Product code : 122N

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Research and development

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Nucleic Test strips (Main constituent)			100	Not classified

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

06/28/2019 EN (English US) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nucleic Test strips

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

06/28/2019 EN (English US) 2/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : white

Odor : No data available Odor threshold : No data available pΗ No data available : No data available Melting point Freezing point : Not applicable : No data available Boiling point Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available : Non flammable. Flammability (solid, gas) Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : Not applicable Solubility : No data available Log Pow : No data available : Not applicable Auto-ignition temperature Decomposition temperature No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, kinematic

Viscosity, dynamic

Explosive properties
Oxidizing properties

Explosion limits

The product is non-reactive under normal conditions of use, storage and transport.

: No data available

: No data available

: No data available

: Not applicable: No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

06/28/2019 EN (English US) 3/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Waste treatment methods.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Nucleic Test strips

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

EU-Regulations

06/28/2019 EN (English US) 4/5

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/11/2017

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

06/28/2019 EN (English US) 5/5