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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # 786-497

Coomassie Brilliant Blue

Size: 1 Liter





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/20/2016 Revision date: 09/20/2017 Version: 7.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Coomassie Briliant Blue G-250 Stain
Product code	: 268C
1.2. Recommended use and restrictions	s on use
No additional information available	
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 <u>technical@GBiosciences.com</u> - <u>www.GBioscien</u>	<u>ces.com</u>
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 n	nixture
GHS-US classification	
Flammable liquids H227 Category 4	Combustible liquid
Full text of H statements : see section 16	
2.2. GHS Label elements, including pred	coutionary statements
GHS-US labeling	sautonary statements
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 i	n classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Informatic	on on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	

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Name	Common Name (Synonyms)	Product identifier	%	GHS-US classification
phosphoric acid, conc=85% (Note B)	acide orthophosphorique, conc=85% / acide phosphorique, conc=85% / acide phosphorique, normal, conc=85% / acide phosphorique, ordinaire, conc=85% / acido ortofosforico, conc=85% / ácido ortofosforico, conc=85% / ácido ortofosforico, conc=85% / orthofosforzuur, conc=85% / orthophosphoric acid, conc=85% / orthophosphoric acid, conc=85% / orthophosphorisaure, Konz=85% / orthophosphorisyre, konc=85% / ortofosforihappo, kons=85% / phosphoris yrup, conc=85% / phosphoris yrup, conc=85% / phosphorsyre, konc=85% / phosphorsyre, konc=85% / Thermische Phosphorsäure, Konz=85%	(CAS-No.) 7664-38-2	10 - 50	Skin Corr. 1B, H314
ethanol	ethanol (ethyl alcohol) / ethanol, anhydrous, undenatured / ethyl alcohol	(CAS-No.) 64-17-5	10 - 50	Flam. Liq. 2, H225
Coommassie Brilliant Blue G 250 Dye	acid blue 90 / benzenemethanaminium, N[4-[(4- ethoxyphenyl)amino]phenyl][4- (ethyl[(3- sulfophenyl]methyl]amino]-2- methylphenyl]methylene]-3-methyl- 2,5-cyclohexadien-1-ylidene]-N- ethyl-3-sulfo-, hydroxide, inner salt, monosodium salt / Brillant Blau G 250 / brillant blue G / brillant blue G 250 / C.I. 42655 / C.I. No. 42655 / CI 42655 / coomassie brillant blue G / coomassie brillant blue grand G 250 / hydrogeen[4-[4-(p- ethoxyanilino)-4'-(ethyl(m- sulfonatobenzyl)amino]-2'- methylbenzhydrileen]-3- methylcyclohexa-2,5-dieen-1- ylideen](ethyl)(m- sulfonatobenzyl)ammonium, mononatriumzout	(CAS-No.) 6104-58-1	2-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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	ng media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	mical	
Fire hazard	: Combustible liquid.	
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.	

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5.3. Protectio	Special protective eq on during firefighting		autions for fire-fighters Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
		_	
	ON 6: Accidental I		
6.1.			oment and emergency procedures
6.1.1. Emerger	For non-emergency procedures		Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. Protectiv	For emergency response re equipment	onders :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Avoid re	Environmental preca		
6.3.	Methods and materia	al 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 inf	ormation	:	Dispose of materials or solid residues at an authorized site.
6.4. For furth	Reference to other se		
	ON 7: Handling an		
7.1.	Precautions for safe		
	ons 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 s	storage, including	any incompatibilities
Storage	conditions	:	Store in a well-ventilated place. Keep cool.
SECTI	ON 8: Exposure c	ontrols/persor	al protection
8.1.	Control parameters		
· ·	horic acid, conc=85%	(7664-38-2)	
	plicable		
	ol (64-17-5)		n) 4000 nm
ACGIH		ACGIH STEL (pp	
Coommassie Brilliant Blue G 250 Dye (6104-58-1) Not applicable			
8.2.	Appropriate enginee	ring controls	
	ate engineering controls nental exposure controls		Ensure good ventilation of the work station. Avoid release to the environment.
8.3.	Individual protection	measures/Persor	nal protective equipment
Hand J	protection:		
Protect	tive gloves		
Eye pr	otection:		
	glasses		
Skin a	nd body protection:		
	uitable protective clothir	ng	
Respir	atory protection:		

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In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical 9.1. Information on basic physical and	
Physical state	: Liquid
Color	: No data available
Odor 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
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
√iscosity, 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 reactivit	y
10.1. Reactivity	
The product is non-reactive under normal cond	itions 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 c	onditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flame	es, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
Hazardous decomposition products.	
	41on
SECTION 11: Toxicological informa	
11.1. Information on toxicological effect	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ethanol (64-17-5)	
L D50 oral rat	10740 mg/kg body weight (Rat: OECD 401: Acute Oral Toyicity: Experimental value)

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ethanol (64-17-5)	
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 20 mg/l (4 h, Rat)
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

Coommassie Brilliant Blue G 250 Dye (6104-58-1)		
Specific target organ toxicity – single exposure	May cause respiratory irritation.	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	

SECTION 12: Ecological in	nformation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

phosphoric acid, conc=85% (7664-38-2)	
LC50 fish 1	138 mg/l (Pisces)
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)

12.2. Persistence and degradability	
phosphoric acid, conc=85% (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable

ThOD	Not applicable
BOD (% of ThOD)	Not applicable
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 O₂/g substance
Chemical oxygen demand (COD)	1.7 g O₂/g substance
ThOD	2.1 g O₂/g substance
BOD (% of ThOD)	0.43
Coommassie Brilliant Blue G 250 Dye (61	04-58-1)
Persistence and degradability	Biodegradability in soil: no data available. Biodegradability in water: no data available.
12.3. Bioaccumulative potential	

phosphoric acid, conc=85% (7664-38-2)	
Bioaccumulative potential	Does not contain bioaccumulative component(s).

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1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)
Low potential for bioaccumulation (Log Kow < 4).
8-1)
No bioaccumulation data available.
No (test)data on mobility of the components available.
0.0245 N/m (20 °C)
Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consi	derations	
13.1. Disposal methods		
Naste treatment methods	: Waste treatment methods.	
SECTION 14: Transport infor	mation	
Department of Transportation (DOT) In accordance with DOT		
Not regulated		
Transportation of Dangerous Goods	i -	
Not applicable		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
SECTION 15: Regulatory info	rmation	
15.1. US Federal regulations		
phosphoric acid, conc=85% (7664-	38-2)	
Not listed on the United States TSCA Not subject to reporting requirements	(Toxic Substances Control Act) inventory of the United States SARA Section 313	
CERCLA RQ	5000 lb	
ethanol (64-17-5)		
Listed on the United States TSCA (Te	oxic Substances Control Act) inventory	
Coommassie Brilliant Blue G 250 I	Dye (6104-58-1)	
Coominassic Brinant Blac C 200 E		

15.2. International regulations

CANADA

No additional information available

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EU-Regulations

No additional information available

National regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Component	State or local regulations
phosphoric acid, conc=85%(7664-38-2)	
ethanol(64-17-5)	
Coommassie Brilliant Blue G 250 Dye(6104-58-1)	

SECTION 16: Other information

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Revision date

: 09/20/2017

Full text of H-phrases:

H225	Highly flammable liquid and vapour
H227	Combustible liquid
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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