

ENCES<sup>®</sup> G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # 786-1392

# G-Sep<sup>™</sup> 25 Superfine

Size: 1kg





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/09/2018 Version: 1.1

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: G-Sep™-25 Superfine			
Product code	: 390G			
1.2. Recommended use and restrict	ions 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				
technical@GBiosciences.com - www.GBiosciences.com	<u>ciences.com</u>			
1.4. Emergency telephone number				
Emergency number	: Chemtrec 1-800-424-930	0 (USA/Canada), +1-703	<b>3-527-3887</b> (I	ntl)
SECTION 2: Hazard(s) identificat	ion			
2.1. Classification of the substance				
GHS US classification				
Flammable liquids Category 4 H227 Con	nbustible 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) Precautionary statements (GHS US)	: H227 - Combustible liquid		opon flamo	s and other ignition sources. No
r recautionary statements (Cris 05)	smoking.	ieat, not sunaces, sparks	, open name	s and other ignition sources. No
	P280 - Wear protective g			
	P370+P378 - In case of f P403+P235 - Store in a v			inguisn.
	P501 - Dispose of conten	its/container to hazardou	s or special v	
	accordance with local, re-	gional, national and/or inf	ternational re	gulation
2.3. Other hazards which do not res	ult in classification			
No additional information available	0)			
2.4. Unknown acute toxicity (GHS U Not applicable	5)			
SECTION 3: Composition/Information	ation on ingradiante			
3.1. Substances	ation on ingredients			
Not applicable				
3.2. Mixtures				
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
ethanol	ethanol (ethyl alcohol) / ethanol,	(CAS-No.) 64-17-5	10 - 50	Flam. Liq. 2, H225
	anhydrous, undenatured / ethyl alcohol			
Full text of hazard classes and H-statements	s : see section 16			
SECTION 4: First-aid measures				
4.1. Description of first aid measure	S			
First-aid measures after inhalation	: Remove person to fresh	air and keep comfortable	for breathing	J.
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/doct	or/physician if you feel ur	nwell.	
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4.2.	Most important symptoms and effects	s (acute and delayed)
4.3. Treat sy	Immediate medical attention and spe- mptomatically.	cial treatment, if necessary
SECTI	ON 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 haza	ard	: Combustible liquid.
5.3.	Special protective equipment and pre	cautions for fire-fighters
Protectic	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2.	For emergency responders	
	re 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 re	lease to the environment.	
6.3.	Methods and material for containment	t 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.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	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 storage, including	g any incompatibilities
Storage	conditions	: Store in a well-ventilated place. Keep cool.
SECTI	ON 8: Exposure controls/perso	nal protection
8.1.	Control parameters	
G-Sep	™-25 Superfine	
No add	litional information available	
ethanc	ol (64-17-5)	
	ACGIH - Occupational Exposure Limits	
ACGIH	STEL (ppm)	1000 ppm
8.2.	Appropriate engineering controls	
		: Ensure good ventilation of the work station.
		: Avoid release to the environment.
		nal protective equipment
8.3.	Individual protection measures/Perso	nai protective equipment

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#### 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

<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: 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
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

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0.6. Hazardous decomposition products		
lazardous decomposition products.		
SECTION 11: Toxicological informati	ion	
1.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
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)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Serm cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
ethanol (64-17-5)		
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – repeated xposure	: Not classified	
Aspiration hazard	: Not classified	
/iscosity, kinematic	: No data available	
SECTION 12: Ecological information		
2.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
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2.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse	
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2.1.       Toxicity         Ecology - general         ethanol (64-17-5)         LC50 fish 1         EC50 Daphnia 1	<ul> <li>The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.</li> <li>14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</li> </ul>	
2.1. Toxicity         Ecology - general         ethanol (64-17-5)         LC50 fish 1         EC50 Daphnia 1         2.2. Persistence and degradability	<ul> <li>The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.</li> <li>14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</li> </ul>	
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2.1. Toxicity         icology - general         ethanol (64-17-5)         LC50 fish 1         EC50 Daphnia 1         2.2. Persistence and degradability         ethanol (64-17-5)         Persistence and degradability         Biochemical oxygen demand (BOD)	<ul> <li>The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.</li> <li>14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</li> <li>9300 mg/l (48 h, Daphnia magna, Pure substance)</li> </ul>	
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2.1. Toxicity         Ecology - general         ethanol (64-17-5)         LC50 fish 1         EC50 Daphnia 1         2.2. Persistence and degradability         ethanol (64-17-5)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         2.3. Bioaccumulative potential         ethanol (64-17-5)         BCF fish 1	<ul> <li>The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.</li> <li>14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</li> <li>9300 mg/l (48 h, Daphnia magna, Pure substance)</li> </ul> Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. <ul> <li>0.8 · 0.967 g O<sub>2</sub>/g substance</li> <li>1.7 g O<sub>2</sub>/g substance</li> <li>2.1 g O<sub>2</sub>/g substance</li> <li>0.43</li> </ul>	

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ethanol (64-17-5)	
Surface tension	0.0245 N/m (20 °C)
Ecology - soil	Highly mobile in soil.

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consider	ations
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	tion
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
CECTION 45. Domulatory inform	ation
SECTION 15: Regulatory inform	ation
15.1. US Federal regulations	ation
15.1. US Federal regulations         ethanol (64-17-5)         Listed on the United States TSCA (Toxic	
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15.1. US Federal regulations         ethanol (64-17-5)         Listed on the United States TSCA (Toxic         15.2. International regulations         CANADA	
15.1. US Federal regulations         ethanol (64-17-5)         Listed on the United States TSCA (Toxic         15.2. International regulations	Substances Control Act) inventory
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#### **SECTION 16: Other information**

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#### Full text of H-phrases:

LIO27	H225	Highly flammable liquid and vapour
H227 Combustible liquid	H227	Combustible liquid

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#### 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.