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A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # 786-536

1 Solution (3M NaCl, 165mM Tris.HCl, pH 8.0, 45mM EDTA, pH 8.0, 16.4% Twee

Size: 1 Liter





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/12/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: STET-E1 Solution
Product code	: 409S
1.2. Recommended use and restric	tions 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.GBios	<u>sciences.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	er mixture
GHS US classification	
Not classified	
2.2. GHS Label elements, including	a procedutionary statements
GHS US labeling	) precautionary statements
No labeling applicable	
0 11	
2.3. Other hazards which do not res	suit in classification
No additional information available 2.4. Unknown acute toxicity (GHS L	
	JS)
Not applicable	
SECTION 3: Composition/Inform	hation on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	
5.2. MIXtures	

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
edetic acid	(ethylenedinitrilo)tetraacetic acid / 3,6-bis(carboxymethyl)3,6- diazoactanedioic acid / 3,6- bis(carboxymethyl)-/ 3,6- diazaoctanediol acid / acetic acid, (ethylenedinitrilo)tetra-/ acetic acid, 2,2',2'',2'''-(1,2- ethanediyldinitrilo)tetrakis-/ Al3- 17181 / caswell No 438 / celon A / celon ATH / cheelox / cheelox BF acid / chemcolox 340 / clewat TAA / complexon II / complexone II / detaric acid / editic acid / EDTA / editic acid / editic acid / EDTA / complexon II / complexone II / detaric acid / editic acid / EDTA / complexon II / complexone II / edetic acid / editic acid / EDTA / editic acid / EDTA,chelating agent / endrate / EPA pesticide chemical code 039101 / ethylene- bis(iminodiacetic acid) / ethylenediaminetetra(acetic acid) / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetate / ethylenediaminetetraacetic acid / gluma cleanser / glycine, N,N'-1,2- ethanediylbis(N- (carboxymethyl)glycine) / N,N'-1,2- ethanediylbis(N- carboxymethyl)glycine / NA9117 / nervanaid B acid / nullapon B acid / nullapon BF acid / perma kleer 50 acid / SEQ100 / sequestrol / tetrine acid / titriplex / tricon BW / trilon B(=EDTA) / trilon BS / trilon BW / universme acid / versene acid / versene(=EDTA) / vinkii 100 / warkeelate acid / YD30	(CAS-No.) 60-00-4	0.5 - 2	Eye Irrit. 2, H319

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 effect	is (acute and delayed)	
No additional information available		
4.3. Immediate medical attention and spe	cial treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishi	ing 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 pro	ecautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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<b>SECTION 6: Accidental release mea</b>	sures
6.1. Personal precautions, protective eq	uipment 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 containme	
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, includi	·
Storage conditions	: Store in a well-ventilated place. Keep cool.
<b>SECTION 8: Exposure controls/pers</b>	onal protection
8.1. Control parameters	
STET-E1 Solution	
STET-E1 Solution No additional information available	
No additional information available edetic acid (60-00-4)	
No additional information available	
No additional information available edetic acid (60-00-4) No additional information available	
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls	
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls	: Ensure good ventilation of the work station.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls	Ensure good ventilation of the work station.     Avoid release to the environment.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls	: Avoid release to the environment.
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No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Personal	: Avoid release to the environment.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Personal         Hand protection:         Protective gloves	: Avoid release to the environment.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Personal         Hand protection:         Protective gloves         Eye protection:	: Avoid release to the environment.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Person         Hand protection:         Protective gloves         Eye protection:         Safety glasses	: Avoid release to the environment.
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No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Person         Hand protection:         Protective gloves         Eye protection:         Safety glasses	: Avoid release to the environment.
No additional information available edetic acid (60-00-4) No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection:	: Avoid release to the environment.
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Person         Hand protection:         Protective gloves         Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protective clothing	: Avoid release to the environment. sonal protective equipment
No additional information available edetic acid (60-00-4) No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection:	· Avoid release to the environment. sonal protective equipment respiratory equipment
No additional information available  edetic acid (60-00-4) No additional information available  8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls  8.3. Individual protection measures/Perse 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	: Avoid release to the environment. sonal protective equipment respiratory equipment properties
No additional information available edetic acid (60-00-4) No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers 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 SECTION 9: Physical and chemical	: Avoid release to the environment. sonal protective equipment respiratory equipment properties
No additional information available         edetic acid (60-00-4)         No additional information available         8.2.       Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures/Persitive gloves         Hand protection:         Protective gloves         Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protection:         In case of insufficient ventilation, wear suitable         SECTION 9: Physical and chemical 1         9.1.	<ul> <li>Avoid release to the environment.</li> <li>sonal protective equipment</li> <li>respiratory equipment</li> <li>properties</li> <li>chemical properties</li> </ul>

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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	: No data available
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 condition	ns 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 conc	litions of use.
10.4. Conditions to avoid	
None under recommended storage and handling c	onditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
Hazardous decomposition products.	
SECTION 11: Toxicological informatic	n
11.1. Information on toxicological effects	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
edetic acid (60-00-4)	
LD50 oral rat	4500 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
ATE US (oral)	4500 mg/kg body weight
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

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Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : No data available

SECTION 12: Ecological ir	Iformation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
edetic acid (60-00-4)	
LC50 fish 1	159 mg/l (US EPA, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)

EC50 Daphnia 1	140 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)

### 12.2. Persistence and degradability

edetic acid (60-00-4)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.01 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.85 g O <sub>2</sub> /g substance
ThOD	1.09 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.0091

## 12.3. Bioaccumulative potential

edetic acid (60-00-4)	
BCF fish 1	1.1 - 1.8 (28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Read-across, Fresh weight)
Log Pow	0.13 (Weight of evidence approach)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

edetic acid (60-00-4)	
Log Koc	2.495 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

## 12.5. Other adverse effects

No additional information available

<b>SECTION 13: Disposal consi</b>	erations	
13.1. Disposal methods		
Waste treatment methods	: Waste treatment methods.	
SECTION 14: Transport infor	nation	
Department of Transportation (DOT		

In accordance with DOT

Not applicable

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#### **Transportation of Dangerous Goods**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

## SECTION 15: Regulatory information

15.1. US Federal regulations

edetic acid (60-00-4)	
Not listed on the United States TSCA (Toxic Subs Not subject to reporting requirements of the Unite	
CERCLA RQ	5000 lb

#### 15.2. International regulations

#### CANADA

#### **EU-Regulations**

### **National regulations**

No additional information available

15.3. US State regulations

### **SECTION 16: Other information**

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Revision date : 05/11/201	Revision date
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#### Full text of H-phrases:

H319 Causes serious eye 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.