

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # DG059

obetaine 3-14 (SB3-14) (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfon

Size: 5g





#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 5/11/2017 Version: 1.1

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate)

239-003-9 EC-No. CAS-No. : 14933-09-6 : 054S Product code

Type of product : Pure substance Formula : C19H41NO3S

Synonyms : 1-tetradecanaminium, N,N-dimethyl-N-(3-sulfopropyl)-, hydroxide, inner salt / 3-(N,N-

dimethylmyristylammino) propane sulfonate / dimethyl(3-

sulphonatopropyl)tetradecylammonium / myristyl sulfobetaine / normal-tetradecyl-N,Ndimethyl-3-amminio-1-propanesulfonate / n-tertradecyl-N,N-dimethyl-3-amino-1-

propanesulfonate / ZWITTERGENT 3-14 detergent

Product group : Raw material **BIG No** 

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Research purposes

Use of the substance/mixture : Chemical substance for research

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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

technical@GBiosciences.com - www.GBiosciences.com

#### 1.4. Emergency telephone number

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

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

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#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

H319

Specific target organ toxicity — Single exposure, Category 3,

H335

Respiratory tract irritation

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS07

CLP Signal word : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate)	(CAS-No.) 14933-09-6 (EC-No.) 239-003-9	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

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#### SECTION 4: First aid measures

First-aid measures after skin contact

#### 4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid.

Keep the victim calm, avoid physical strain. Depending on the victim's condition:

doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

: Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if

irritation persists.

First-aid measures after ingestion : Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a

doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to

#### 4.2. Most important symptoms and effects, both acute and delayed

: AFTER INHALATION OF DUST/MIST: Irritation of the respiratory tract. Irritation of the Symptoms/effects after inhalation

nasal mucous membranes.

Symptoms/effects after skin contact : Tingling/irritation of the skin. Red skin. Itching.

Symptoms/effects after eye contact : Irritation of the eye tissue.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting

extinguisher, reel). Water. Class A foam.

Unsuitable extinguishing media : Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Combustible. In finely divided state: increased fire hazard.

INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

**Explosion hazard** : DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION

HAZARD: Dust cloud can be ignited by a spark.

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure

to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray

: Heat/fire exposure: compressed air/oxygen apparatus. Protection during firefighting

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen

apparatus. Dust cloud production: dust-tight suit.

: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated **Emergency procedures** 

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors

and windows. In case of dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting

equipment.

#### 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

For containment

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.

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Methods for cleaning up : Prevent dust cloud formation. Scoop solid spill into closing containers. Powdered: do not

use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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 : Avoid raising dust. Keep away from naked flames/heat. In finely divided state: use spark-

/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no

compressed air for pumping over. Keep container tightly closed.

Hygiene measures : Wash contaminated clothing before reuse. 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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. Storage area : Store in a dry area. Keep only in the original container. Meet the legal requirements.

: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal  $\,$ 

requirements. Secure fragile packagings in solid containers.

#### 7.3. Specific end use(s)

Special rules on packaging

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Gloves

#### Eye protection:

Face shield. In case of dust production: protective goggles

#### Skin and body protection:

Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

#### Respiratory protection:

Dust production: dust mask with filter type P2

#### **Environmental exposure controls:**

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Solid. Powder.

Molecular mass : 363.61 g/mol

Colour : White to off-white.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 245 °C

Melting point: 245 °CFreezing point: Not applicableBoiling point: No data available

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Flash point : 110 °C

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available

Relative vapour density at 20 °C : Not applicable

Relative density : Not applicable

Solubility : Moderately soluble in water.

Water: moderately soluble, Literature

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

9.2. Other information

VOC content : 0 %

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with (some) acids/bases and with (strong) oxidizers.

#### 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 : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Potential adverse human health effects and : Causes skin irritation. May cause respiratory irritation. Causes serious eye irritation.

symptoms

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term

adverse effects in the environment.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : No data available on ecotoxicity.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

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12.2. Persistence and degradability
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Persistence and degradability Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

#### SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate) (14933-09-6)

Bioaccumulative potential No bioaccumulation data available.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

Waste treatment methods.

Product/Packaging disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Dissolve or mix with a combustible solvent.

Additional information

: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No

1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code

: 15 01 10\* - packaging containing residues of or contaminated by dangerous substances 16 05 06\* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14	1	H	l n	um	her	

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

#### 14.3. Transport hazard class(es)

Transport hazard class(es) (ADR) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

Transport hazard class(es) (ADN) : Not regulated

Transport hazard class(es) (RID) : Not regulated

#### 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated : Not regulated Packing group (IATA) Packing group (ADN) : Not regulated

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Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate) is not on the REACH Candidate List

SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate) is not on the REACH Annex XIV List

SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate) is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

SB 3-14 (n-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate) is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : 0 %

#### 15.1.2. National regulations

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

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

Safety Data Sheet applicable for regions : GB - United Kingdom

#### SDS EU (REACH Annex II)

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.