



# SDS [20%] Safety Data Sheet

Version 1.1

Revision date 01/11/2012/LM-IA

## SECTION 1. Product and company identification

Trade name : SDS [20%]  
Product code : 786-016  
Company identification : G-Biosciences/ Geno Technology, Inc.  
9800 Page Avenue  
St. Louis, MO 63312-1429, USA  
Tel.1-800-628-7730  
<http://www.GBiosciences.com>  
Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887

## SECTION: 2. Hazards identification

### 2.1. Emergency Overview

Physical State : Liquid  
Colour : None  
Odour : None

### 2.2. OSHA Regulatory Status

No additional information available

### 2.3. Potential health effects

Symptoms/injuries after inhalation : AFTER INHALATION OF DUST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Headache. Dry/sore throat.  
Symptoms/injuries after skin contact : Red skin. Tingling/irritation of the skin. Blue/grey discolouration of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.  
Symptoms/injuries after eye contact : Irritation of the eye tissue.  
Symptoms/injuries after ingestion : Nausea. Diarrhoea. Irritation of the gastric/intestinal mucosa.

### 2.4. Potential environmental effects

No additional information available

## SECTION: 3. Composition/information on ingredients

Name	CAS No.	%
Deionized water	7732-18-5	80
Sodium Dodecyl Sulfate	151-21-3	20

## SECTION: 4. First aid measures

### 4.1. First aid procedures

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.  
First-aid measures after skin contact : Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.  
First-aid measures after eye contact : Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.  
First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

### 4.2. Note to physicians

No additional information available

## SECTION: 5. Firefighting measures

### 5.1. Flammable properties

Fire hazard : DIRECT FIRE HAZARD. Literature reports direct fire hazard. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".  
Explosion hazard : DIRECT EXPLOSION HAZARD. Its dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark.

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### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Polymer foam. ABC powder. Carbon dioxide.

### 5.3. Protection for firefighters

Firefighting instructions : Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

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

## SECTION: 6. Accidental release measures

### 6.1. Personal precautions

#### 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.

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

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

### 6.3. Methods for containment

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Do not use compressed air for pumping over spills.

### 6.4. Methods for clean up

Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Powdered: do not use compressed air for pumping over spills. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.5. Other information

No additional information available

### 6.6. Spill or leak statements by type of chemical

No additional information available

## SECTION: 7. Handling and storage

### 7.1. Handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 7.2. Storage

Storage conditions : Store in a dry, cool place.

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

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: cardboard. glass. plastics.

## SECTION: 8. Exposure controls/personal protection

### 8.1. Exposure guidelines

No additional information available

### 8.2. Engineering controls

No additional information available

### 8.3. Personal protective equipment (PPE)

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.

Hand protection : Gloves.

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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.

### SECTION: 9. Physical and chemical properties

Physical state	: Liquid
Colour	: None.
Odour	: None.
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Solidification point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

No additional information available

### SECTION: 10. Stability and reactivity

#### 10.1. Chemical stability

No additional information available

#### 10.2. Conditions to avoid

No additional information available

#### 10.3. Incompatible materials

No additional information available

#### 10.4. Hazardous decomposition products

No additional information available

#### 10.5. Possibility of hazardous reactions

No additional information available

### SECTION: 11. Toxicological information

#### Information on toxicological effects

Acute toxicity : Harmful in contact with skin and if swallowed.

Sodium Dodecyl Sulfate (151-21-3)	
LD50 oral rat	1288 mg/kg
LD50 dermal rat	< 2000 mg/kg
LD50 dermal rabbit	> 580 mg/kg
ATE (oral)	1288 mg/kg
ATE (dermal)	1100.00000 mg/kg

Irritation	: Irritating to eyes and skin.
Corrosivity	: Not classified
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Reproductive toxicity	: Not classified

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### SECTION: 12. Ecological information

#### 12.1 Ecotoxicity

Ecology - general : Classification concerning the environment: not applicable.  
Ecology - air : Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009).

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LC50 fishes 1	4.62 mg/l (96 Hours; SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS; NOMINAL CONCENTRATION)
LC50 other aquatic organisms 1	0.91 mg/l (48 Hours; CRASSOSTREA SP.; STATIC SYSTEM)
EC50 Daphnia 1	6.3 - 7.8 mg/l (48 Hours; DAPHNIA MAGNA; STATIC SYSTEM)
EC50 other aquatic organisms 1	117 mg/l (96 Hours; SELENASTRUM CAPRICORNUTUM; GROWTH RATE)
LC50 fishes 2	7.97 mg/l (96 Hours; BRACHYDANIO RERIO; FLOW-THROUGH SYSTEM)
LC50 other aquatic organisms 2	0.72 mg/l (96 Hours; HOMARUS SP.; LARVAE)
EC50 Daphnia 2	12.6 mg/l (48 Hours; DAPHNIA PULEX)
EC50 other aquatic organisms 2	18 mg/l (168 Hours; LEMNA SP.; FLOW-THROUGH SYSTEM)

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#### 12.2. 12.2. Persistence and degradability

Sodium Dodecyl Sulfate (151-21-3)	
Persistence and degradability	Readily biodegradable in water. test: 81 %, OECD 302B Zahn- Well.

#### 12.3. Bioaccumulation/Accumulation

Sodium Dodecyl Sulfate (151-21-3)	
BCF fishes 1	3.9 - 5.3 (72 Hours; CYPRINUS CARPIO)
BCF fishes 2	7.15 (PISCES; CHRONIC)
Log Pow	1.6
Bioaccumulative potential	Slightly bioaccumulative.

#### 12.4. Mobility in environmental media

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION: 13. Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations.

### SECTION: 14. Transport information

#### 14.1. Basic shipping description

No additional information available

#### 14.2 Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID.

#### Overland transport

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

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### SECTION: 15. Regulatory information

#### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R21/22

Xi; R36/38

Full text of R-phrases: see section 16.

#### 15.2.2. National regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION: 16. Other information

#### HMIS III Rating

No additional information available

SDS US (ANSI)