Diethylene Glycol Dimethanesulfonate: sc-211326

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Diethylene Glycol Dimethanesulfonate
Product Number: sc-211326

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

WHMIS Classification (Canada)

D1A Very Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by Inhalation/Skin Absorption/Inhalation

D2A Very Toxic Material Causing Other Toxic Effects
Carcinogen

WHMIS Symbols (Canada)

Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Dermal (Category 2)
Acute Toxicity, Inhalation (Category 2)
Acute Toxicity, Oral (Category 3)
Carcinogenicity (Category 1B)

EU Classification (According to EU Regulation 67/548/EEC)

Toxic by inhalation, in contact with skin and if swallowed. May cause cancer.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements

Toxic

Hazard Codes

T

Risk Codes and Phrases

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R45 May cause cancer.

Safety Precaution Codes and Phrases

S53 Avoid exposure - obtain special instruction before use.
S46 If swallowed, seek medical advice immediately and show this container or label.
S27/28 After contact with skin, take off immediately all contaminated clothing and wash with plenty of soap and water.
S63 In case of accident by inhalation, remove casualty to fresh air and keep at rest.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Danger

GHS Hazard Statements

H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H350	May cause cancer.

GHS Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301/P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308/P313	IF exposed or concerned: Get medical advice/attention.

Unclassified Hazards/Hazards Not Otherwise Classified

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: 2,2'-Oxybis-ethanol Dimethanesulfonate
Molecular Formula: C6H14O7S2
Molecular Weight: 262.30
CAS Registry #: 34604-52-9

4. FIRST AID MEASURES

Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

No data available

Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Arising from the Substance or Mixture

Carbon oxides, Sulfur oxides

Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further Information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

Environmental Precautions

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

Methods and Materials for Containment and Cleaning Up
Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).
Reference to Other Sections
For protective equipment, refer to Section 8. For disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.
Conditions for Safe Storage, Including any Incompatibilities
Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Store at 4 ºC.
Specific End Uses
For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
Contains no components with established occupational exposure limits.
Exposure Controls
Appropriate Engineering Controls
A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.
Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/ end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.
Eye/Face Protection
Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).
Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.
Body Protection
Fire resistant (Nomex) coveralls or chemical-resistant bodysuit (laminated Tychem SL or equivalent).
Respiratory Protection
Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid	Odor	N/A
Odor Threshold	N/A	pH	N/A
Melting/Freezing Point	55-57 ºC	Boiling Point/Range	N/A
Flash Point	N/A	Boiling Point/Range	N/A
Flammability (solid/gas)	N/A	Upper Explosive Limit	N/A
Lower Explosive Limit	N/A	Vapor Pressure	N/A
Vapor Density	N/A	Relative Density	N/A
Solubility	Chloroform, Ethyl Acetate	Auto-Ignition Temperature	N/A
Decomposition Temperature	N/A	Viscosity	N/A
Explosive Properties	N/A	Oxidizing Properties	N/A
Partition Coefficient n-octanol/water	N/A		

10. STABILITY AND REACTIVITY

Reactivity
No data available
Chemical Stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
No data available
Conditions to Avoid
No data available
Incompatible Materials
Strong oxidizing agents.
Hazardous Decomposition Products
No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects
Acute Toxicity
No data available
Skin Corrosion/Irritation
No data available
Serious Eye Damage/Irritation
No data available
Respiratory or Skin Sensitization
No data available
Germ Cell Mutagenicity
No data available
Carcinogenicity
Probable human carcinogen by structural homology to an identified carcinogen.
A structurally related compound has been designated by the IARC as Group 2A: Probably carcinogenic to humans.
Reproductive Toxicity/Teratogenicity
No data available
Single Target Organ Toxicity - Single Exposure
No data available
Single Target Organ Toxicity - Repeated Exposure
No data available
Aspiration Hazard
No data available
Potential Health Effects and Routes of Exposure

Inhalation	Toxic if inhaled. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	Toxic if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

12. ECOLOGICAL INFORMATION

Toxicity
no data available
Bioaccumulative potential
no data available
PBT and vPvB assessment
no data available
Persistence and degradability
no data available
Mobility in soil
no data available
Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated Packaging

Dispose of as above

Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

UN Number

DOT (US): 2811
IATA: 2811
IMDG: 2811
ADR/RID: 2811

UN Proper Shipping Name

DOT (US)/IATA:

Toxic solids, organic, n.o.s. (Diethylene Glycol Dimethanesulfonate)
IMDG/ARD/RID:
Toxic solids, organic, n.o.s. (Diethylene Glycol Dimethanesulfonate)

Transport Hazard Class(es)

DOT (US): 6.1
IATA: 6.1
IMDG: 6.1
ADR/RID: 6.1

Packing Group

DOT (US): III
IATA: III
IMDG: III
ADR/RID: III

Environmental Hazards

DOT (US): None
IATA: None
IMDG: None
ADR/RID: None

Special Precautions for User

None

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL

United States

TSCA Status: This product is not listed on the US EPA TSCA

European Union

ECHA Status: This product is not registered with the EU ECHA

Chemical Safety Assessment

No data available

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user. 11/13/2012