

# Dimethyldioctylammonium Bromide: sc-294358



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Dimethyldioctylammonium Bromide  
**Product Number:** sc-294358  
**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. HAZARD(S) IDENTIFICATION

**OSHA Haz Com: CFR 1910.1200:**

Skin Corrosion [Category 2]

Eye damage [Category 2A]

**Hazard Statement(s):**

Causes serious eye damage; Causes skin irritation

**Pictogram(s):**



**Signal word:** Warning!

**Precautionary Statement(s):**

**Prevention**

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection

**Response**

**If on skin:** Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage**

None

**Disposal**

None

### 3. COMPOSITION /INFORMATION ON INGREDIENTS

**Components:** Dimethyldioctylammonium Bromide

**CAS Number:** 3026-69-5

**Molecular Weight:** 350.42

**Chemical Formula:** C<sub>18</sub>H<sub>40</sub>BrN

### 4. FIRST-AID MEASURES

**Inhalation:**

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Skin contact:**

If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before reuse. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Eye contact:**

IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Ingestion:**

Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Symptoms/effects:**

Acute: Redness

Delayed: No data available

**Immediate medical attention:**

If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Dry chemical, CO<sub>2</sub>, water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.

**Hazardous combustion products:**

These products include: Carbon oxides, nitrogen oxides, halogenated compounds

**Other specific hazards:**

Closed containers may explode from heat of a fire.

**Special precautions for fire-fighters:**

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

**Special protective equipment for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Personal protective equipment:** Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

**Emergency procedures:** Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

**Methods and materials for containment and cleaning up:**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect the absorbed material.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

**7. HANDLING AND STORAGE****Precautions for safe handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

**Conditions for safe storage:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

**Storage incompatibilities:**

Store away from oxidizing agents

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Limits**

no data available

**Appropriate engineering controls:**

Good general ventilation should be sufficient to control airborne levels. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

**Respiratory protection:**

Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

**Hand protection:**

Nitrile gloves.

**Eye protection:**

Safety glasses.

**Skin and body protection:**

Lab coat.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form (20°C):	Solid	Odor:	No data available
Odor threshold:	No data available	Melting point/freezing point:	No data available
Boiling point/range:	No data available	Vapor pressure:	No data available
Decomposition temperature:	No data available	Vapor Density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available	pH:	No data available
Flash point:	No data available	Autoignition temperature:	No data available
Flammability (solid, gas):	No data available	Flammability or explosive limits:	No data available
Solubility(ies):	No data available	Partition coefficient:	No data available
Evaporation rate:	No data available	n-octanol/water (log Pow)	
(Butyl Acetate = 1)			

**10. STABILITY AND REACTIVITY****Reactivity:**

Not Available.

**Chemical Stability:**

Stable under recommended storage conditions. (See Section 7)

**Possibility of Hazardous Reactions:**

No hazardous reactivity has been reported.

**Conditions to avoid:**

Avoid excessive heat and light.

**Incompatible materials:**

Oxidizing agents

**Hazardous Decomposition Products:**

No data available

## 11. TOXICOLOGICAL INFORMATION

**RTECS Number:** No data available

**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:**

IARC: No data available

NTP: No data available

OSHA: No data available

**Reproductive toxicity:**

No data available

**Routes of Exposure:**

Inhalation, Eye contact, Ingestion, Skin contact

**Symptoms related to exposure:**

Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering.

Skin contact may result in redness, pain or dry skin. Eye contact may result in redness or pain.

**Potential Health Effects:**

Skin and eye contact may result in irritation.

**Target organ(s):**

No data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Fish: No data available

Crustacea: No data available

Algae: No data available

**Persistence and degradability:**

No data available

**Bioaccumulative potential (BCF):**

No data available

**Mobility in soil:**

No data available

**Partition coefficient: n-octanol/water (log Pow)**

No data available

**Soil adsorption (Koc):**

No data available

**Henry's Law: constant (PaM<sup>3</sup>/mol)**

No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal of product:**

Recycle or process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but

does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261.

**Disposal of container:**

Dispose of as unused product. Do not reuse empty containers

**Other considerations:**

Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## 15. REGULATORY INFORMATION

**Toxic Substance Control Act (TSCA 8b.):**

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

**US Federal Regulations**

**CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed

SARA 302: Not Listed

**State Regulations**

**Massachusetts:** Not Listed

**New Jersey:** Not Listed

**Pennsylvania:** Not Listed

**California Proposition 65:** Not Listed

**Other Information**

**NPFA Rating**

**Health:** 1

**Flammability:** 0

**Instability:** 0

**HMIS Classification**

**Health:** 1

**Flammability:** 0

**Physical:** 0

**International Inventories**

**WHMIS hazard class:** D2B: Materials causing other toxic effects. (Toxic)

**EC No:** 221-189-8

**Notice Through Official Gazettes Reference Number: (Japan)**

**ENCS:** Not Listed

## 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.*

2/05/2014