Dimethyldioctadecylammonium chloride: sc-227905



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Dimethyldioctadecylammonium chloride
Product Number:	sc-227905
Supplier:	Santa Cruz Biotechnology Inc

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

Emergency Overview OSHA Hazards Irritant GHS Classification Serious eye damage (Category 1) Acute aquatic toxicity (Category 1) GHS Label elements, including precautionary statements Pictogram



Signal word	Danger
Hazard statement	s)
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
Precautionary sta	ement(s)
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P35	+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
HMIS Classification	1
Health haz	rd: 2
Flammabili	y: 0
Physical h	zards: 0
NFPA Rating	
Health haz	rd: 2
Fire:	0
Reactivity	azard: 0
Potential Health E	fects
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C38H80CIN Molecular Weight : 586.50

CAS-No.	EC-No.	Index-No.	Concentration
Dimethyldioctadecylammonium chloride			
107–64–2	203-508-2	612-162-00-5	-

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. **Conditions for safe storage**

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min

Splash protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	flakes	pН	N/A
Melting point	N/A	Freezing point	N/A
Boiling point	N/A	Flash point	N/A
Ignition temperature	N/A	Autoignition temperature	N/A
Lower explosion limit	NA	Upper explosion limit	N/A
Vapor pressure	N/A	Density	N/A
Water solubility	N/A	Relative vapor density	N/A
Odor	N/A	Odor Threshold	N/A
Partition coefficient: n-octanol/water	log Pow: 5	Evaporation rate	N/A

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid no data available Materials to avoid Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas **Other decomposition products** no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Abuto to	Alony			
	ral LD50			
		rat – 11,300 mg/kg		
	emarks: Be air.	havioral:Somnolence (general depressed activity). Diarrhoea Skin and Appendages: Other:		
	an. halation L0	250		
	data avail			
	ermal LD50			
nc	o data avail	able		
0	ther inform	nation on acute toxicity		
	o data avail			
	rosion/irri	ation		
no data a				
no data a		ge/eye irritation		
		n sensitization		
no data a				
	ell mutagen	icity		
no data a	-			
Carcinog	genicity			
IARC:		mponent of this product present at levels greater than or equal to 0.1% is identified as ble, possible or confirmed human carcinogen by IARC.		
ACGIH:		mponent of this product present at levels greater than or equal to 0.1% is identified as a ogen or potential carcinogen by ACGIH.		
NTP:		mponent of this product present at levels greater than or equal to 0.1% is identified as a or or anticipated carcinogen by NTP.		
OSHA:		No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
Reprodu	ctive toxic	itv		
no data a				
Teratoge				
no data a	available			
		an toxicity – single exposure (Globally Harmonized System)		
no data a				
		an toxicity – repeated exposure (Globally Harmonized System)		
no data a				
no data a	on hazard			
	l health eff	erts		
	halation	May be harmful if inhaled. Causes respiratory tract irritation.		
	gestion	May be harmful if swallowed.		
	kin	May be harmful if absorbed through skin. Causes skin irritation.		
Ey	yes	Causes eye irritation.		
		ns of Exposure		
		nowledge, the chemical, physical, and toxicological properties have not been thoroughly		
investiga				
no data a	stic effects			
	available al Informat	ion		
	BQ1923000			

12. ECOLOGICAL INFORMATION

Toxicity Toxicity to fish LC50 - Lepomis macrochirus - 1.04 mg/l - 96.0 h EC50 - Daphnia magna (Water flea) - 0.32 mg/l - 48 h Toxicity to daphnia and other aquatic invertebrates Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 0.46 mg/l - 72 h Persistence and degradability no data available **Bioaccumulative potential** no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG UN number: 3077 Class: 9 Packing group: III EMS-No: F-A. S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DODMAC) Marine pollutant: Marine pollutant IATA UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (DODMAC) Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

OSHA Hazards Irritant SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components DODMAC CAS-No. 107-64-2 **New Jersey Right To Know Components** DODMAC CAS-No. 107-64-2

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.

12/12/2012