



# R TargetMolecules

Creation Date:	May 23, 2024
Revision Date:	May 23, 2024

# According to the UN GHS revision 8

**IDENTIFICATION** 

1.

1.1	GHS Product identifier	
	Product name: 📀	Benzyldimethylstearylammonium chloride 📀
	Catalog Number:	T22268
	CAS Number:	122-19-0
1.2	Other means of identificatio	n
	Other names:	
1.3	Recommended use of the ch	nemical and restrictions on use
	Identified uses:	no data available
1.4	Supplier's details	
	Company:	Targetmol Chemicals Inc.
	Uses advised against:	36 Washington Street, Wellesley Hills, Massachusetts 02481 USA
	Tel/Fax:	(781) 999-4286
1.5	Emergency phone number	
	Emergency phone number:	781-999-4286
	Service hours:	Monday to Friday, 9am-5pm (Standard timezone:UTC/GMT -5hours).
2.	HAZARD IDENTIFICATION	
2.1	Classification of the substance or mixture	
		ent, short-term (Acute) - Category Acute 1 ent, long-term (Chronic) - Category Chronic 1
2.2	GHS label elements, includi	ng precautionary statements
	Pictogram(s):	
	Signal word:	Danger
	Hazard statement(s):	H302 Harmful if swallowed H318 Causes serious eye damage H410 Very toxic to aquatic life with long lasting effects
	Precautionary statement(s):	
	Prevention:	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ P273 Avoid release to the environment.
	Response:	P301+P317 IF SWALLOWED: Get medical help. P330 Rinse mouth. P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317 Get medical help. P391 Collect spillage.

none

Storage:

Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

# 2.3 Other hazards which do not resultin classification

no data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number
Benzyldi <mark>methylste</mark> arylammoni um chloride	-	122-19-0	204-527-9

#### 4. FIRST-AID MEASURES

#### 4.1 Description of necessary first-aid measures

#### General advice

no data available

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### 4.2 Most important symptoms/effects, acute and delayed

no data available

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Ingestion causes gastrointestinal disturbances. Contact with chemical irritates eyes and skin and may damage eyes. (USCG, 1999)

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Fires involving this material can be controlled with a dry chemical, carbon dioxide or Halon extinguisher. (NTP, 1992)

#### 5.2 Specific hazards arising from the chemical

Special Hazards of Combustion Products: Toxic oxides of nitrogen and hydrochloric acid fumes may form in fires. (USCG, 1999)

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

#### 6.2 Environmental precautions

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

# 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Occupational Exposure limit values** 

no data available

#### **Biological limit values**

no data available

#### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Benzyldimethyloctadecylammonium chloride is a white solid or thick liquid with a mild odor. (USCG, 1999)
Color	WHITE, CRYSTALLINE POWDER
Odour 📀	no data available
Melting point/ freezing point	230°C(lit.)
Boilingpoint or in <mark>it</mark> ial boiling point and boiling range	120°C(lit.)
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available

# A DRUG SCREENING EXPERT

13°C(lit.)
no data available
log Kow= 3.23
no data available
0.98
no data available
no data available

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

#### 10.3 Possibility of hazardous reactions

BENZYLDIMETHYLOCTADECYLAMMONIUM CHLORIDE is a quaternary ammonium compound. Quaternary ammonium salts often serve as catalysts in reactions. They are incompatible with many strong oxidizers and reducing agents, such as metal hydrides, alkali/active metals, and organometallics. Unlike the ammonium ion, [NH4]+, and the primary, secondary, or tertiary ammonium cations, the quaternary ammonium cations are permanently charged, independent of the pH of their solution.

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

When heated to decomposition it emits very toxic fumes of /nitrogen oxides and hydrogen chloride/.

# 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Oral: LD50 Rat oral 1250 mg/kg Inhalation: no data available Dermal: 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



# A DRUG SCREENING EXPERT

no data available

#### Carcinogenicity

no data available

Reproductive toxicity

no data available

#### STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

# 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available

#### 12.2 Persistence and degradability

AEROBIC: Benzyldimethystearylammonium chloride did not degrade after 10 days using the MITI test(1). The SCAS method and the OECD Confirmatory test showed 94 and 95% degradation of benzyldimethylstearylammonium chloride, respectively(2).

## 12.3 Bioaccumulative potential

An estimated BCF of 71 was calculated for benzyldimethylstearylammonium chloride(SRC), using a log Kow of 3.23(1) and a regressionderived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is moderate.

### 12.4 Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc for benzyldimethylstearylammonium chloride can be estimated to be 3X10+7(SRC). According to a classification scheme(2), this estimated Koc value suggests that benzyldimethylstearylammonium chloride is expected to be immobile in soil.

# 12.5 Other adverse effects

no data available

# 13. DISPOSAL CONSIDERATIONS

# 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# 14. TRANSPORT INFORMATION

# 14.1 UN Number

no data available

# 14.2 UN Proper Shipping Name

no data available

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# 14.3 Transport hazard class(es)

no data available

# 14.4 Packing group, if applicable

no data available

# 14.5 Environmental hazards

no data available

# 14.6 Special precautions for user

no data available

# 14.7 Transport in bulk according to IMO instruments

no data available

# 15. **REGULATORY INFORMATION**

# 15.1 Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed.
EC Inventory	Listed.
United States Toxic Substances Control Act (TSCA) Inventory	Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed.
Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.
Korea Existing Chemicals List (KECL)	Listed.

# 16. OTHER INFORMATION

Information	on revision

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# Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

# References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/ eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal. org/echemportal/index?pageID=0&request\_locale=en CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot. gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp ECHA - European Chemicals Agency, website: https://echa.europa.eu/

#### **Other Information**

no data available

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product. All products are for Research Use Only · Not For Human or Veterinary or Therapeutic Use