

# **SAFETY DATA SHEETS**

# According to the UN GHS revision 8

Version: 1.0

Creation Date: July 15, 2019

Revision Date: July 15, 2019

### **SECTION 1: Identification**

#### 1.1 GHS Product identifier

Product name 1-Propanaminium,N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxododecyl)amino]-, inner salt

#### 1.2 Other means of identification

Other names

### 1.3 Recommended use of the chemical and restrictions on use

Identified usesSurfactantsUses advised againstno data available

1.4 Supplier's details

**Company** Target Molecule Corp.

Address Suite 260, 36 Washington Street, Wellesley Hills, Massachusetts, USA

**Tel/Fax** +1 (857) 239-0968

1.5 Emergency phone number

Emergency phone number 400-821-2233

Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

### **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture

Serious eye damage, Category 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Danger

Hazard statement(s) H318 Causes serious eye damage

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

Prevention P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection/...

P273 Avoid release to the environment.

Response 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.

**Storage** none

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 result in classification

no data available

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
(carboxymethyl)dimethyl-3-[(1-	(carboxymethyl)dimethyl-3-[(1-	4292-	224-	1000/
oxododecyl)amino]propylammonium hydroxide	oxododecyl)amino]propylammonium hydroxide	10-8	292-6	100%

#### **SECTION 4: First-aid measures**

### 4.1 Description of necessary first-aid measures

#### 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

no data available

### **SECTION 5: Fire-fighting measures**

### 5.1 Suitable extinguishing media

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

### 5.2 Specific hazards arising from the chemical

no data available

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

Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 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 spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# **SECTION 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.

Recommended storage temperature: Store at -20°C

## **SECTION 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 risk-elimination 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

# SECTION 9: Physical and chemical properties and safety characteristics

Physical stateSolid. Particulates.Colourno data availableOdourno data available

Melting point/freezing point Atm. press.:1 013 hPa. Remarks:Melting point not identifyable due to decomposition.

Boiling point or initial boiling point Atm. press.:1 013 hPa. Remarks:Boiling point could not be identified due to

and boiling rangedecomposition.Flammabilityno data availableLower and upper explosionno data available

limit/flammability limit

Flash point > 230 °C. Atm. press.:1 013 hPa.

Auto-ignition temperature Remarks: No self-ignition temperature observed up to the decomposition temperature of

260°C.

Decomposition temperatureno data availablepHno data availableKinematic viscosityno data available

**Solubility** In water: <= 250 mg/L. Temperature:20 °C.

Partition coefficient n- log Pow = 1.79. Temperature:20 °C. Remarks:C8 derivate.;log Pow = 2.81.

octanol/water Temperature:20 °C. Remarks:C10 derivate.;log Pow = 3.54. Temperature:20 °C.

Remarks:C12 derivate.

Vapour pressure <= 0.003 hPa. Temperature:20 °C. Remarks:If a rest of humidity exist, this can result in a

too high value. Hence, a comparator check with an absolute dry sample can yield in a

lower result.

Density and/or relative density 1.2. Temperature:20 °C.

Relative vapour density no data available

Particle characteristics no data available

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

no data available

## 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

# 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

## Acute toxicity

- Oral: LD50 rat (male/female) 7.45 mL/kg bw. Remarks:Based on product; after 14 d.
- Inhalation: no data available
- Dermal: LD50 rat (male/female) > 2 000 mg/kg bw.

#### 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

no data available

## Reproductive toxicity

no data available

#### STOT-single exposure

no data available

### STOT-repeated exposure

#### **Aspiration hazard**

no data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

- Toxicity to fish: LC50 Pimephales promelas 1.11 mg/L 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna ca. 1.9 mg/L 48 h.
- Toxicity to algae: EC50 Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) 4.66 mg/L 72 h.
- Toxicity to microorganisms: EC0 Pseudomonas putida ca. 3 000 mg/L 16 h.

## 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

#### 12.5 Other adverse effects

no data available

## **SECTION 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.

## **SECTION 14: Transport information**

#### 14.1 UN Number

ADR/RID: Not dangerous goods. (For	IMDG: Not dangerous goods. (For	IATA: Not dangerous goods. (For
reference only, please check.)	reference only, please check.)	reference only, please check.)

### 14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For	IMDG: Not dangerous goods. (For	IATA: Not dangerous goods. (For
reference only, please check.)	reference only, please check.)	reference only, please check.)

## 14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For	IMDG: Not dangerous goods. (For	IATA: Not dangerous goods. (For
reference only, please check.)	reference only, please check.)	reference only, please check.)

### 14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For	IMDG: Not dangerous goods. (For	IATA: Not dangerous goods. (For
reference only, please check.)	reference only, please check.)	reference only, please check.)

#### 14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

### 14.6 Special precautions for user

no data available

## 14.7 Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

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

Chemical name	Common names and synonyms	CAS number	EC number
(carboxymethyl)dimethyl-3-[(1-	(carboxymethyl)dimethyl-3-[(1-	4292-10-	224-292-6
oxododecyl)amino]propylammonium hydroxide	oxododecyl)amino]propylammonium hydroxide	8	224-292-6
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			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Chemicals List (KECL)			Listed.

### **SECTION 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
- ChemlDplus, 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/

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