

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name MIRATAINE CBS 50G

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Detergent
- Emulsifier
- Cosmetics, personal care products
- Washing and cleaning products (including solvent based products)

**1.3 Details of the supplier of the safety data sheet****Company**

Syensqo USA LLC.,  
2564 US HIGHWAY 1, LAWRENCE, NJ 08648 USA,  
Tel.: +1.609.860.4000

**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): +1-800-424-9300 within the United States and Canada, or +1-703-527-3887 for international collect calls.

**SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

**2.1 Classification of the substance or mixture****HCS 2012 (29 CFR 1910.1200)**

Serious eye damage:

Category 1

**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

**Hazard Statements**

- H318 Causes serious eye damage.

**Cautionary Statements**

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Prevention

- P280

Wear eye protection/ face protection.

Response

- P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**2.3 Other hazards which do not result in classification**

- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Not applicable, this product is a mixture.

**3.2 Mixture****Hazardous Ingredients and Impurities**

Chemical name	Identification number CAS-No.	Concentration [%]
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-coco acyl derivs., inner salts	68139-30-0	>= 30 - < 40
1,2,3-Propanetriol	56-81-5	>= 1 - < 5
Amides, coco, N-[3-(dimethylamino)propyl]	68140-01-2	>= 0.5 - < 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1 Description of first-aid measures****General advice**

- First responder needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected apparel in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

**In case of inhalation**

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

**In case of skin contact**

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- If skin irritation occurs, seek medical advice/attention.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids.
- Take victim immediately to hospital.



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- Continue rinsing eyes during transport to hospital.

#### **In case of ingestion**

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.

#### **4.2 Most important symptoms and effects, both acute and delayed**

- no data available

#### **4.3 Indication of any immediate medical attention and special treatment needed**

##### **Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### **SECTION 5: Firefighting measures**

<b><u>Flash point</u></b>	> 200 °F (> 93 °C) closed cup
	Flammability class: Will burn
<b><u>Autoignition temperature</u></b>	No data available
<b><u>Flammability / Explosive limit</u></b>	No data available

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

- Extinguishing media - small fires
  - Water spray
  - Multipurpose powders
  - Carbon dioxide (CO<sub>2</sub>)
  - Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Extinguishing media - large fires
  - Water spray
  - Multipurpose powders
  - Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)

##### **Unsuitable extinguishing media**

- Do not use a solid water stream as it may scatter and spread fire.

#### **5.2 Special hazards arising from the substance or mixture**

##### **Specific hazards during fire fighting**

- The pressure in sealed containers can increase under the influence of heat.
- Aqueous liquid. Does not present any particular risk in the event of a fire.

Hazardous decomposition products formed under fire conditions.



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- (following evaporation of water)
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.

**Hazardous combustion products:**

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NO<sub>x</sub>)
- Sulfur oxides

**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

**Specific fire fighting methods**

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers / equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Further information**

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment.
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
  - Face-shield
  - Tightly fitting safety goggles.
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapor formation use a respirator with an approved filter.
- Stop leak if safe to do so.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire service).
- For further information refer to section 8 "Exposure controls / personal protection."

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## 6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by diking.
- The product should not be allowed to enter drains, water courses or the soil.
- Local authorities should be advised if significant spillages cannot be contained.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

## 6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Wash nonrecoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of as hazardous waste in compliance with local and national regulations.

### Additional advice

- Material can create slippery conditions.

## 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.

For personal protection, see section 8.



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**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep in a contained area
- The floor of the storage area should be impermeable and designed to form a water-tight basin.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer.
- Do not freeze.
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

**Requirements for storage rooms and vessels**

**Recommended storage temperature:** 41 - 86 °F (5 - 30 °C)

- Do not freeze.

**7.3 Specific end use(s)**

- no data available

**SECTION 8: Exposure controls/personal protection**

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**8.1 Control parameters****Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
1,2,3-Propanetriol			National Institute for Occupational Safety and Health
1,2,3-Propanetriol	TWA	5 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : mist, respirable fraction		



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1,2,3-Propanetriol	TWA	15 mg/m <sup>3</sup>	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
Form of exposure : mist, total dust			

**8.2 Exposure controls****Control measures****Engineering measures**

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Effective exhaust ventilation system.
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

**Individual protection measures****Respiratory protection**

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves.
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

***Suitable material***

- Nitrile rubber
- Neoprene
- PVC
- butyl-rubber

**Eye protection**

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
  - Tightly fitting safety goggles.
  - Face-shield

**Skin and body protection**

- Full protective suit
- Footwear protecting against chemicals.
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
  - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

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- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**Protective measures**

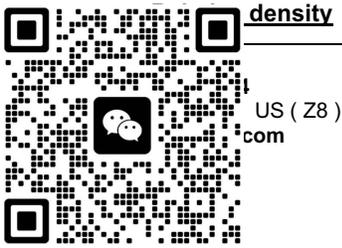
- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of the protective equipment.

**SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

**9.1 Information on basic physical and chemical properties**

<b><u>Physical state</u></b>	liquid
<b><u>Form</u></b>	Aqueous solution
<b><u>Color</u></b>	yellow
<b><u>Odor</u></b>	slight
<b><u>Odor Threshold</u></b>	No data available
<b><u>Melting point/freezing point</u></b>	<u>Freezing point</u> : < 32 °F (0 °C)
<b><u>Initial boiling point and boiling range</u></b>	<u>Boiling point/boiling range</u> : ca. 212 °F (100 °C)
<b><u>Flammability (solid, gas)</u></b>	No data available
<b><u>Flammability (liquids)</u></b>	No data available
<b><u>Flammability / Explosive limit</u></b>	No data available
<b><u>Flash point</u></b>	> 200 °F (> 93 °C) closed cup Flammability class: Will burn
<b><u>Autoignition temperature</u></b>	No data available
<b><u>Decomposition temperature</u></b>	No data available
<b><u>pH</u></b>	7.0 ( 10 %) Aqueous solution
<b><u>Viscosity</u></b>	No data available
<b><u>Solubility</u></b>	<u>Water solubility</u> : soluble
<b><u>Partition coefficient: n-octanol/water</u></b>	No data available
<b><u>Vapor pressure</u></b>	ca. 20.00 mmHg (26.66 hPa) ( 77 °F (25 °C))
<b><u>Density</u></b>	No data available
<b><u>density</u></b>	1.126 ( 77 °F (25 °C))



<b>Relative vapor density</b>	> 1
<b>Particle characteristics</b>	No data available
<b>Evaporation rate (Butylacetate = 1)</b>	No data available
<b>9.2 Other information</b>	
<b>Non Volatiles by Weight</b>	> 48 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

- Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.
- Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

### 10.5 Incompatible materials

- Strong oxidizing agents
- Strong reducing agents
- Strong acids
- Strong bases

### 10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NO<sub>x</sub>)
- Sulfur oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### **Acute oral toxicity**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

LD50 : 2,950 mg/kg - Rat , male and female  
Method: OECD Test Guideline 401  
By analogy  
tested on C8-C18  
Unpublished reports  
Gavage  
May be harmful if swallowed.



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LD50: 4,100 mg/kg - Mouse  
Unpublished internal reports

**Acute inhalation toxicity**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

No data available

**Acute dermal toxicity**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

LD50 : > 2,000 mg/kg - Rat , male and female  
Method: OECD Test Guideline 402  
By analogy  
tested on C8-C18  
Semioclusive  
No mortality observed at this dose.  
Unpublished internal reports

**Acute toxicity (other routes of administration)**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

No data available

**Skin corrosion/irritation**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Rabbit  
No skin irritation  
Method: OECD Test Guideline 404  
By analogy  
tested on C8-C18  
Semioclusive  
Unpublished reports

**Serious eye damage/eye irritation**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Rabbit  
Irreversible effects on the eye  
Method: OECD Test Guideline 405  
By analogy  
tested on C8-C18  
Unpublished reports

Risk of serious damage to eyes.

**Respiratory or skin sensitization**

Maximization Test - Guinea pig  
Does not cause skin sensitization.  
Method: OECD Test Guideline 406  
By analogy  
Unpublished reports

**Mutagenicity****Genotoxicity in vitro**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Ames test  
with and without metabolic activation

negative  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
By analogy  
tested on C8-C18  
Unpublished reports



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Chromosome aberration test in vitro  
Strain: Human lymphocytes  
with and without metabolic activation

negative  
Method: OECD Test Guideline 473  
By analogy  
tested on C8-C18  
Unpublished internal reports

Gene mutation assays in mammalian cells.  
Strain: mouse lymphoma cells  
with and without metabolic activation

negative  
Method: OECD Test Guideline 476  
By analogy  
tested on C8-C18  
Unpublished internal reports

#### Genotoxicity in vivo

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

In vivo micronucleus test - Rat  
male  
Oral  
Method: according to a standardized method

negative  
By analogy  
tested on C8-C18  
Gavage  
Unpublished internal reports

#### Carcinogenicity

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP  
IARC  
OSHA

#### Toxicity for reproduction and development

##### Toxicity to reproduction / fertility

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Reproduction / developmental toxicity screening test - Rat, male and female, Oral  
Fertility NOEL: 300 mg/kg  
Method: OECD Test Guideline 422  
By analogy, tested on C8-C18, Gavage, No toxicity to reproduction, Unpublished  
internal reports

##### Developmental Toxicity/Teratogenicity

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Pre-natal - Rat, Oral  
General Toxicity Maternal NOAEL: 66.7 mg/kg  
Teratogenicity NOAEL: 600mg/kg  
Embryo-fetal toxicity. NOAEL: 600 mg/kg  
Method: OECD Test Guideline 414  
By analogy, tested on C8-C18, Gavage, Unpublished internal reports, The  
product is not considered to be toxic for development.

#### STOT

STOT-single exposure



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1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria., Internal evaluation.  
By analogy

#### STOT-repeated exposure

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria., Internal evaluation.  
By analogy, tested on C8-C18

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Oral 90-day - Rat , male and female  
NOAEL: 600 mg/kg  
Method: OECD Test Guideline 408  
By analogy  
Gavage  
tested on C8-C18  
Unpublished internal reports  
No data available  
No data available

#### Experience with human exposure Aspiration toxicity

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic Compartment

##### Acute toxicity to fish

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

LC50 - 96 h : 2.1 - 2.66 mg/l - Pimephales promelas (fathead minnow)  
static test  
Analytical monitoring: no

Method: OECD Test Guideline 203  
category approach  
Toxic to fish.  
tested on C8-C18  
tested on C12-C18  
Unpublished internal reports

LC50 - 96 h : 2.1 mg/l - Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 203  
Toxic to aquatic organisms.  
Unpublished internal reports

LC50 - 96 h : > 0.23 mg/l - Fish: Scophthalmus maximus  
semi-static test  
Analytical monitoring: no

Method: OSPARCOM Guidelines (1995)  
Marine species  
By analogy  
tested on C8-C18  
Unpublished internal reports

#### Acute toxicity to daphnia and other aquatic invertebrates



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1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

EC50 - 48 h : 4 mg/l - Daphnia magna (Water flea)  
static test  
Analytical monitoring: no  
Method: Directive 67/548/EEC, Annex V, C.2.  
By analogy  
Toxic to aquatic invertebrates.  
tested on C12-C18  
Unpublished internal reports

EC50 - 48 h : 4.1 mg/l - Daphnia magna (Water flea)  
Method: Tested according to Directive 92/69/EEC.  
Toxic to aquatic organisms.  
Unpublished internal reports

EC50 - 48 h : 5.6 mg/l - Crustacean: Acartia tonsa  
static test  
Analytical monitoring: no  
Method: according to a standardized method  
Marine species  
By analogy  
tested on C8-C18  
Unpublished internal reports

#### Toxicity to aquatic plants

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

ErC50 - 72 h : 2.26 mg/l - Skeletonema costatum (marine diatom)  
static test  
Analytical monitoring: no  
Method: ISO 10253  
Marine species  
By analogy  
Toxic to algae.  
tested on C8-C18  
Unpublished internal reports

ErC50 - 72 h : 2.3 mg/l - Skeletonema costatum (marine diatom)  
Method: ISO 10253  
Toxic to aquatic organisms.  
Unpublished internal reports

NOEC - 72 h : 0.76 mg/l - Skeletonema costatum (marine diatom)  
static test  
Analytical monitoring: no  
Method: ISO 10253  
Marine species  
By analogy  
Harmful to algae with long lasting effects.  
tested on C8-C18  
Unpublished internal reports

#### Toxicity to microorganisms

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

NOEC - 3 h :  $\geq 1,000$  mg/l - activated sludge  
static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
By analogy  
tested on C8-C18  
Unpublished internal reports

ic toxicity to fish

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1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

EC10: 0.075 mg/l - 32 d - Pimephales promelas (fathead minnow)  
flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
By analogy  
tested on C8-C18  
Unpublished reports

#### Chronic toxicity to daphnia and other aquatic invertebrates

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

NOEC: 1.05 mg/l - 21 d - Daphnia magna (Water flea)  
semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
By analogy  
No adverse chronic effect observed up to and including the threshold of 1 mg / L.  
tested on C8-C18  
Unpublished internal reports

#### Sediment compartment

##### Toxicity to benthic organisms

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

NOEC: 697.3 mg/kg dry weight (d.w.) Exposure duration: 10 Days  
Species: Corophium volutator  
Method: OSPARCOM Guidelines (2005)  
Marine species, By analogy, tested on C8-C18, Unpublished internal reports

#### 12.2 Persistence and degradability

##### Abiotic degradation

No data available

##### Physical- and photo-chemical elimination

No data available

##### Biodegradation

##### Biodegradability

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Ready biodegradability study:  
The substance fulfills the criteria for ultimate aerobic biodegradability and ready  
biodegradability  
Expert judgment and weight of evidence determination.  
tested on C12  
tested on C12-C18  
tested on C8-C18  
Unpublished internal reports

Method: OECD Test Guideline 310  
> 60 % - 28 Days  
Readily biodegradable.  
Unpublished internal reports

Ultimate aerobic biodegradability  
Method: OECD Test Guideline 306  
57 % - 28 d  
Theoretical carbon dioxide production  
Inoculum: Sea water  
Conc. in standard unit mg / l: 8.29 mg/l  
By analogy



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tested on C8-C18  
Unpublished internal reports

### **Degradability assessment**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

The product is considered to be rapidly degradable in the environment

### **12.3 Bioaccumulative potential**

#### **Partition coefficient: n-octanol/water**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Not potentially bioaccumulable

#### **Bioconcentration factor (BCF)**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Bioconcentration factor (BCF): < 100  
Not bioaccumulable.  
Structure-activity relationship (SAR)

### **12.4 Mobility in soil**

**Adsorption potential (Koc)** No data available

#### **Known distribution to environmental compartments**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Ultimate destination of the product: Soil

Water

### **12.5 Results of PBT and vPvB assessment**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Not persistent, bioaccumulative, and toxic (PBT).  
Not very persistent and very bioaccumulative (vPvB).

### **12.6 Other adverse effects**

#### **Ecotoxicity assessment**

##### **Short-term (acute) aquatic hazard**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Toxic to aquatic life.

##### **Long-term (chronic) aquatic hazard**

1-Propanaminium, N-(3-aminopropyl)-  
2-hydroxy-N,N-dimethyl-3-sulfo-, N-  
coco acyl derivs., inner salts

Toxic to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product Disposal**

##### **Prohibition**

- Do not discharge directly into the environment.
- Do not dispose of with domestic refuse.
- Dispose of as hazardous waste in compliance with local and national regulations.

Chemical additions, processing or otherwise altering this material may make the waste management information



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presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

### **Waste Code**

- Environmental Protection Agency
- Hazardous Waste – NO

### **Advice on cleaning and disposal of packaging**

#### ***Prohibition***

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapors.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- In accordance with IMDG regulations containers or tankers that have not been cleaned or deodorized and that previously contained a hazardous product, must either be labeled or have hazard signs.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

## **SECTION 14: Transport information**

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

### **49 CFR**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Cocamidopropyl Hydroxysultaine)
<b>14.3 Transport hazard class</b>	9
Label(s)	9
<b>14.4 Packing group</b>	
Packing group	III
ERG No	171
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	Marine Pollutant



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**TDG**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cocamidopropyl Hydroxysultaine)
<b>14.3 Transport hazard class</b>	9
Label(s)	9
<b>14.4 Packing group</b>	
Packing group	III
ERG No	171
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	Marine Pollutant

**NOM**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cocamidopropyl Hydroxysultaine)
<b>14.3 Transport hazard class</b>	9
Label(s)	9
<b>14.4 Packing group</b>	
Packing group	III
ERG No	171
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	

**IMDG**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cocamidopropyl Hydroxysultaine)
IMDG Code segregation group	Not Relevant
<b>14.3 Transport hazard class</b>	9
Label(s)	9
<b>14.4 Packing group</b>	
Packing group	III
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	



**14.6 Special precautions for user**

EmS F-A , S-F

For personal protection, see section 8.

**14.7 Transport in bulk vessels according to IMO instruments**

No data available

**IATA****14.1 UN number** UN 3082**14.2 Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Cocamidopropyl Hydroxysultaine)**14.3 Transport hazard class** 9  
Label(s): 9**14.4 Packing group** III  
Packing groupPacking instruction (cargo aircraft) 964  
Max net qty / pkg 450.00 L  
Packing instruction (passenger aircraft) 964  
Max net qty / pkg 450.00 L**14.5 Environmental hazards** YES**14.6 Special precautions for user**

For personal protection, see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

**SECTION 15: Regulatory information****15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory: Listed introduction
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory

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Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Syensqo legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Syensqo legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.

## 15.2 Federal Regulations

US. EPA EPCRA SARA Title III**SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Serious eye damage or eye irritation	Yes
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The categories not mentioned are not relevant for the product.

**Section 313 Toxic Chemicals (40 CFR 372.65)**

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.

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

This material does not contain any components with a section 302 EHS TPQ.

**Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

This material does not contain any components with a SARA 302 RQ.

**Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.



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**15.3 State Regulations****US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

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

**SECTION 16: Other information****NFPA (National Fire Protection Association) - Classification**

Health	2 moderate
Flammability	1 slight
Instability or Reactivity	0 minimal

**HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**

Health	2 moderate
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

**Further information**

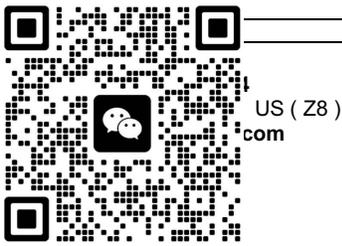
- Distribute new edition to clients

**Date Prepared:** 07/29/2025

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- PEL: Permissible exposure limit
- TWA: 8-hour time weighted average
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- NIOSH: National Institute for Occupational Safety and Health
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. The information exclusively relates to the designated product in its unaltered state. Safety and health hazards may change if such product is used in combination with other materials or in any other manufacturing process. Users are responsible for compliance with all regulations linked to product related activities, and to use the products in accordance with technical instructions given by Syensqo, if any.

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