# BIMAX® CSEM 25/100

Safety Data Sheet 9174A

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date: 05/22/2025 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

| | | |
|---|---|---|
| Product name | : | BIMAX® CSEM 25/100 |
| Product code | : | 9174A |
| Product form | : | Substance |
| Physical state | : | Solid |
| Synonyms | : | CETYL STEARYL POLYETHOXY (25) METHACRYLATE |
| Chemical name | : | POLY(OXY-1,2-ETHANEDIYL), ALPHA-(2-METHYL-1-OXO-2-PROPENYL)-OMEGA-HYDROXY-, C16-18-ALKYL ETHERS |

### 1.2. Recommended use and restrictions on use

| | | |
|---|---|---|
| Recommended use | : | Laboratory chemicals<br>Manufacture of substances |

### 1.3. Supplier

GELEST, INC.
158 Industrial Road
Glen Rock, PA 17327
USA
T 717-227-1774 - F 717-227-1775 (M-F): 8:00 AM - 5:30 PM EST
CS-Gelest@m-chem.com - www.gelest.com

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) |

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

| | | |
|---|---|---|
| Skin corrosion/irritation, Category 2 | H315 | Causes skin irritation. |
| Serious eye damage/eye irritation, Category 1 | H318 | Causes serious eye damage. |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction. |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 | May cause respiratory irritation. |

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) :
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS US) :
P261 - Avoid breathing dust, fume.
P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye and face protection.
P302+P352 - If on skin: Wash with plenty of water.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3. Hazards not otherwise classified (HNOC)

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type : Polymer
Name : BIMAX® CSEM 25/100
CAS-No. : 70879-51-5

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| cetyl stearyl polyethoxy (25) methacrylate | CAS-No.: 70879-51-5 | 94 – 96 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |
| Methacrylic acid | CAS-No.: 79-41-4 | 4 – 6 | Flam. Liq. 4, H227<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |
| Hydroquinone monomethyl ether | CAS-No.: 150-76-5 | 0.18 – 0.24 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

| | | |
|---|---|---|
| First-aid measures after inhalation | : | Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : | Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : | Call a poison center/doctor/physician if you feel unwell. |

### 4.2. Most important symptoms and effects (acute and delayed)

| | | |
|---|---|---|
| Symptoms/effects after inhalation | : | May cause respiratory irritation. |
| Symptoms/effects after skin contact | : | Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : | Serious damage to eyes. |

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

| | | |
|---|---|---|
| Suitable extinguishing media | : | Alcohol-resistant foam. Carbon dioxide. Dry chemical. |
| Unsuitable extinguishing media | : | Avoid the use of streaming water, as this may spread the fire. |

### 5.2. Specific hazards arising from the chemical

| | | |
|---|---|---|
| Fire hazard | : | No fire hazard. |
| Explosion hazard | : | No direct explosion hazard. |
| Reactivity | : | No dangerous reactions known under normal conditions of use. |

### 5.3. Special protective equipment and precautions for fire-fighters

| | | |
|---|---|---|
| Firefighting instructions | : | Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Protective equipment | : | Wear recommended personal protective equipment. |
| Emergency procedures | : | Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : | Evacuate unnecessary personnel. |

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

| | | |
|---|---|---|
| For containment | : | Stop leak, if possible without risk. |
| Methods for cleaning up | : | Shovel or sweep up and put in a closed container for disposal. |
| Other information | : | Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Oxidizing agents. Bases. Free radical intiators. Peroxides.

Storage temperature : < 32 °C (Recommended)

Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| USA - ACGIH - Occupational Exposure Limits | |
|---|---|
| Local name | Methacrylic acid |
| ACGIH OEL TWA | 70 mg/m³ |
| | 20 ppm |
| Remark (ACGIH) | TLV® Basis: Skin & eye irr |
| Regulatory reference | ACGIH 2025 |

| USA - ACGIH - Occupational Exposure Limits | |
|---|---|
| Local name | 4-Methoxyphenol |
| ACGIH OEL TWA | 5 mg/m³ |
| Remark (ACGIH) | TLV® Basis: Eye & Skin dam |
| Regulatory reference | ACGIH 2025 |

| USA - NIOSH - Occupational Exposure Limits | |
|---|---|
| NIOSH REL (TWA) | 5 mg/m³ |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**
Wear recommended personal protective equipment.

**Hand protection:**
Protective gloves

**Eye protection:**
Chemical goggles or face shield

**Skin and body protection:**
Wear suitable protective clothing

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | white to light yellow waxy solid. |
| Molecular mass | : | 1424 g/mol |
| Color | : | white to light yellow. |
| Odor | : | No data available |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Melting point | : | 50 °C |
| Freezing point | : | Not applicable |
| Boiling point | : | No data available |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Non flammable. |
| Vapor pressure | : | No data available |
| Relative vapor density at 20°C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Partition coefficient n-octanol/water (Log Kow) | : | No data available |
| Viscosity, kinematic | : | Not applicable |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Explosion limits | : | Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal temperatures and pressures. Contains the following stabilizer(s): MEHQ.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat and light.

### 10.5. Incompatible materials

Oxidizing agents. Bases. Free radical intiators. Peroxides.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In the event of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Methacrylic acid (79-41-4) | |
|---|---|
| LD50 oral rat | 1320 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | 500 – 1000 mg/kg body weight Animal: rabbit, Guideline: other: |
| LC50 Inhalation - Rat | 7.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other: |

| Hydroquinone monomethyl ether (150-76-5) | |
|---|---|
| LD50 oral rat | 1600 mg/kg |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other: |
| LD50 dermal rabbit | > 2000 mg/kg |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : Not classified

| Methacrylic acid (79-41-4) | |
|---|---|
| LOAEC (inhalation,rat,gas,90 days) | 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEC (inhalation,rat,gas,90 days) | 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EPA OPPTS 870.3465 (90-Day Inhalation Toxicity), Guideline: other: |

| Hydroquinone monomethyl ether (150-76-5) | |
|---|---|
| LOAEL (oral,rat,90 days) | 300 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |
| NOAEL (oral,rat,90 days) | 150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |

Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Serious damage to eyes.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| Methacrylic acid (79-41-4) | |
|---|---|
| LC50 - Fish [1] | 85 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 130 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 45 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 53 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' |

| Hydroquinone monomethyl ether (150-76-5) | |
|---|---|
| LC50 - Fish [1] | 84.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1] | 3 mg/l Test organisms (species): Daphnia magna |
| LC50 - Fish [2] | 28.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| EC50 72h - Algae [1] | 54.7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 19 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| ErC50 algae | 54.7 mg/l Source: EHCA |
| LOEC (chronic) | 1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Methacrylic acid (79-41-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.93 Source: HSDB |

| Hydroquinone monomethyl ether (150-76-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.34 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|---|---|---|---|
| **14.1. UN number** | | | |
| Not regulated for transport | | | |
| **14.2. Proper Shipping Name** | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| **Transport document description** | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| **14.3. Transport hazard class(es)** | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| **14.4. Packing group** | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| **14.5. Environmental hazards** | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

### 14.6. Special precautions for user

**DOT**
No data available

**TDG**
No data available

**IMDG**
No data available

**IATA**
No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name | CAS-No. | Listing | Commercial status | Flags |
|---|---|---|---|---|
| cetyl stearyl polyethoxy (25) methacrylate | 70879-51-5 | Present | Active | XU |
| Methacrylic acid | 79-41-4 | Present | Active | |
| Hydroquinone monomethyl ether | 150-76-5 | Present | Active | T |

## 15.2. International regulations

### CANADA

**cetyl stearyl polyethoxy (25) methacrylate (70879-51-5)**

Listed on the Canadian DSL (Domestic Substances List)

**Methacrylic acid (79-41-4)**

Listed on the Canadian DSL (Domestic Substances List)

**Hydroquinone monomethyl ether (150-76-5)**

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

**Hydroquinone monomethyl ether (150-76-5)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

**Methacrylic acid (79-41-4)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

**Hydroquinone monomethyl ether (150-76-5)**

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing  New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

**Methacrylic acid (79-41-4)**

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

| Hydroquinone monomethyl ether (150-76-5) |
|---|
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

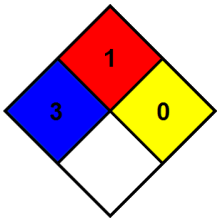
| Full text of hazard classes and H-statements | |
|---|---|
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

Abbreviations and acronyms : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

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SDS US (GHS HazCom 2012) - Custom

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