## **Safety Data Sheet**

acc. to OSHA HCS

### **1 Identification**

· Product identifier

#### • Trade name: <u>(carboxymethyl)trimethylammonium hydroxide</u> <u>Betaine monohydrate</u> Betainum monohydricum

- · Article number: 102459
- · CAS Number:
- 590-47-6
- · EC number:
- 209-684-7
- · Application of the substance / the mixture Additive for cosmetic or pharmaceutic preparations
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Fagron Inc
   2400 Pilot Knob Road
   St. Paul, MN 55120
   www.fagron.us
   QA@fagron.us

Information department:

Tel.: 800-423-6967 Fax: 800-339-1596

· Emergency telephone number:

Emergency Telephone: US: 1-800-535-5053 International: 1-352-323-3500

## 2 Hazard(s) identification

### · Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



HEALTH0Health = 0FIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- $\cdot$  Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

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USA



## Safety Data Sheet

### Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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## 3 Composition/information on ingredients

· Chemical characterization: Substances

### · CAS No. Description

- CAS: 590-47-6 (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate
- Betainum monohydricum
- Identification number(s)
- · EC number: 209-684-7

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek immediate medical advice.
- Information for doctor:

Most important symptoms and effects, both acute and delayed

- No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment. Alcohol resistant foam Fire-extinguishing powder

- Water spray
- Special hazards arising from the substance or mixture

In case of fire, the following can be released:

- Carbon monoxide (CO)
- Nitrogen oxides (NOx) Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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### Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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 Methods and material for containment and cleaning up: Pick up mechanically.
 Ensure adequate ventilation.
 Dispose of the collected material according to regulations.
 Dispose contaminated material as waste according to item 13.
 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

## 7 Handling and storage

#### · Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in dry conditions.

Store receptacle in a well ventilated area.

• Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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### Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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Material of gloves
 The selection of the suitable gloves does not only depend on the material, but also on further
 marks of quality and varies from manufacturer to manufacturer.
 Natural rubber, NR
 Nitrile rubber, NBR
 Neoprene gloves
 PVC gloves

 Penetration time of glove material
 The exact break through time has to be found out by the manufacturer of the protective gloves

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Solid
Color:	Not determined.
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	5–7
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.



USA

### Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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· Partition coefficient (n-octar	ol/water): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions

Risk of dust explosion.

- Risk of dust explosion if enriched with fine dust in the presence of air.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Carbon monoxide and carbon dioxide
- Nitrogen oxides (NOx)

## **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- Oral LD50 11179 mg/kg (rat)
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

### · Toxicity

· Aquatic toxicity:

EC50 (48h) 4335 mg/l (daphnia)

· Persistence and degradability No further relevant information available.

- · Behavior in environmental systems:
- $\cdot$  Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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### Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number	
· DOT, IMDG, IATA	not regulated
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<b>t II of</b> Not applicable.
· UN "Model Regulation":	not regulated

## **15 Regulatory information**

 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances): Substance is not listed.

- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- Hazardous Air Pollutants Substance is not listed.

· Proposition 65

Chemicals known to cause cancer: Substance is not listed.

• Chemicals known to cause reproductive toxicity for females: Substance is not listed.

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Trade name: (carboxymethyl)trimethylammonium hydroxide Betaine monohydrate Betainum monohydricum

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- · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Fagron US **Quality Assurance**
- · Contact: QA@fagron.us
- Date of preparation / last revision 05/16/2023
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

USA

