

Safety Data Sheet BTMC - Conditioning Emulsifier

July 17th, 2023

Section 1: Chemical Product and Company Identification

Product name: BTMC - Conditioning Emulsifier
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Section 2: Hazards Identification

Hazards:

Skin irritation	Category 2
Serious eye damage	Category 1
Specific target organ toxicity - single exposure	Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure	Category 2

Label Elements:



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Hazard Symbol:

Signal Word:

Danger

Hazard Statement:

H315

Causes skin irritation.

H318

Causes serious eye damage.

H336

May cause drowsiness or dizziness.

H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement

Prevention:

P260

Do not breathe dust.

P264

Wash skin thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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.

P314

Get medical advice/ attention if you feel unwell.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P362

Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

P405 Store locked up.

Disposal:

P501

Dispose of contents/container in accordance with local/regional/ national/international regulations.

Hazard(s) not otherwise classified:

May cause irritation of respiratory tract.

Ingestion may cause irritation to mucous membranes.

Section 3: Composition/Information on Ingredients



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Substance/mixture: Mixture

Chemical Name	CAS No.	Concentration %
Behentrimonium Chloride	17301-53-0	>=70-<90
Isopropanol	67-63-0	>=20-<30

Section 4: First Aid Measures

If inhaled: If breathed in, move person into fresh air. If symptoms persist, call a physician.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If symptoms persist, call a physician.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

If swallowed: If swallowed, call a poison control center or doctor immediately.

Most important symptoms and effects, both acute and delayed: See section 2 and 11

Section 5: Fire-Fighting Measures

Flash point: Not applicable

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet.

Specific extinguishing media: Standard procedure for chemical fires.

Further information: Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the groundwater system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use water spray to cool unopened containers.

Special protective equipment for fire-fighters: In the event of fire, wear a self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment.

Methods and materials for containment and cleaning up: Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Advice on protection against fire and explosion: Take measures to prevent the build up of electrostatic charge.

Advice on safe handling: Keep away from heat and sources of ignition. Do not use sparking tools. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage: Store in original container. Store in a cool place. Keep the container tightly closed in a dry and well-ventilated place.

Materials to avoid: No special restrictions on storage with other products.

Further information on storage stability: Keep in a dry place. Stable under recommended storage conditions.

Section 8: Exposure Controls/Personal Protection

Ingredients with workplace control parameters:

Components	CAS No.	Form of exposure	Control parameters	Basis
Isopropanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm	NIOSH REL



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			1225 mg/m3	
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1225 mg/m3	OSHA P0

Personal Protective Equipment:

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection: Impervious gloves

Eye protection: Tightly fitting safety goggles

Skin and body protection: Impervious clothing

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance: Wax-like solid

Color: Off-white

Odor: Alcohol-like

Odor Threshold: Not available

pH: 4.9, Concentration 3% in aqueous solution

Melting/Freezing Point: 185°F / 85°C

Boiling Point: No data available

Decomposition temperature: No data available.

Initial boiling point and boiling range: No data available

Flash Point: Not applicable

Evaporation Rate: Not determined

Upper/lower flammability or explosive limits

Flammability limit/Explosion limit – lower (%): Not applicable

Flammability limit/Explosion limit – upper (%): Not applicable

Vapor pressure: No data available

Vapor density: Not applicable.

Relative density: No data available

Density: 0.4802-0.5104 g/cm³

Solubility(ies)

Solubility (water): Dispersible.

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: Not applicable

Viscosity: Not available.

Explosive properties: Not applicable

Particle size: No data available

Section 10: Stability and Reactivity

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur. Stable under recommended storage conditions. Vapors may form an explosive mixture with air.

Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: In the case of fire, hazardous decomposition products may be produced such as: Carbon oxides, Nitrogen oxides (NO_x)

Section 11: Toxicological Information

Acute toxicity

Product:

Acute oral toxicity: LD50 Oral (Rat): > 5,000 mg/kg

Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Product:

Method: In vitro study

Remarks: No skin irritation



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Species: Rabbit
Result: Skin irritation
Test substance: 25%
Remarks: Moderate skin irritation

Components:

Behentrimonium Chloride:

Species: Rabbit
Exposure time: 4 h
Assessment: Irritating to skin.
Method: OECD Test Guideline 404
Result: irritating
GLP: yes
Test substance: (undiluted)
Remarks: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: No data available
Species: Rabbit
Result: Severe eye irritant
Method: Draize Test
Test substance: 25%
Remarks: Information given is based on data obtained from similar substances.

Components:

Behentrimonium Chloride:

Species: rabbit eye
Result: Causes serious eye damage.
Exposure time: 24 h
Assessment: Risk of serious damage to eyes.
Method: OECD Test Guideline 405
Test substance: (undiluted)
Remarks: Risk of serious damage to eyes.

Respiratory or skin sensitization

Product:

Assessment: Causes serious eye irritation.



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Components:

Behentrimonium Chloride:

Test Type: Buehler Test

Routes of exposure: Dermal

Species: Guinea pig

Assessment: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Test substance: 20%

Remarks: Did not cause sensitization.

Germ cell mutagenicity

Components:

Behentrimonium Chloride:

Genotoxicity in vitro: Test Type: in vitro test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Result: In vitro tests did not show mutagenic effects

GLP: yes

Remarks: In vitro tests did not show mutagenic effects

STOT-single exposure

Product:

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

Product:

Repeated dose toxicity - assessment: Causes serious eye irritation.

Components:

Behentrimonium Chloride:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Section 12: Ecological Information



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Ecotoxicity

Components:

Behentrimonium Chloride:

Toxicity to fish:

LC50 (Danio rerio (zebra fish)): 3.5 mg/l

Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 0.022 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: solution

Method: OECD Test Guideline 202

GLP: yes

Remarks: Measured value

Toxicity to algae/aquatic plants:

EC50 (Desmodesmus subspicatus (green algae)): 3.48 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Test substance: solution

Method: OECD Test Guideline 201

GLP: yes

Remarks: Measured value

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC (Daphnia magna (Water flea)): 0.007 mg/l

Exposure time: 21 Days

Test Type: static test

Method: OECD Test Guideline 211

GLP: No information available.

Toxicity to microorganisms :

EC50 (activated sludge): 43 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition

Method: OECD Test Guideline 209



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GLP: no

Persistence and degradability

Product:

Biodegradability:

Remarks: Expected to be biodegradable only at low concentrations or when its germicidal action has been effectively neutralized.

Components:

Behentrimonium Chloride:

Biodegradability: (OECD 301B)

Inoculum: No data available

Concentration: 0.2 mg/l

Biodegradation: 80 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

Test substance: solution

Remarks: Readily biodegradable

Bioaccumulative potential

Components:

Behentrimonium Chloride:

Partition coefficient: n-octanol/water: log Pow: 3.95 (68 °F / 20 °C)

GLP: yes

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information: There is no data available for this product.

Section 13: Disposal Conditions

Disposal methods:

Waste from residues: Dispose of in accordance with local regulations.



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Contaminated packaging: Empty remaining contents. Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information

International Regulations

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

Not applicable for products as supplied.

Domestic regulation

Special precautions for user

Remarks: Not regulated for transport in accordance with DOT, TDG, IMDG, and IATA regulations.

Section 15: Regulatory Information

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards :

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Isopropanol 67-63-0 >= 20 - < 30 %

US State Regulations

Pennsylvania Right To Know

Behentrimonium Chloride 17301-53-0

Isopropanol 67-63-0

New Jersey Right To Know

Behentrimonium Chloride 17301-53-0

Isopropanol 67-63-0

California Prop. 65

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

The ingredients of this product are reported in the following inventories:



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TSCA: This product either contains a chemical substance that is not listed on the public TSCA Inventory or the TSCA Inventory status of the product has not been evaluated. For FDA uses only.

REACH: Registered for import by authorized entities only.

DSL: All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

Section 16: Other Information

The information in this publication is believed to be accurate and is given in good faith, but no representation of warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representing of warranty, expressed or implied, is made with respect to information or products including, without limitation, warranties or merchantability, fitness for a particular purpose, non-fringement of any third party patent or other intellectual property rights including, without limit, copyright, trademark and design.