



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

Revision Date: 22 Dec 2025

Revision Number: 1

1. Identification

Product identifier

Product Name BTMS-50 Conditioning Emulsifier

Other means of identification

Product Code(s) RAW9083

Batch # RAW9083.Z10B0822

Synonyms Behentrimonium methosulfate (and) cetyl alcohol; BTMS-50

CAS No. Mixture

Recommended use of the chemical and restrictions on use

Recommended use Cationic conditioning emulsifier for personal care applications: hair conditioners, cream rinses, styling products, body lotions, and moisturizing creams. For professional formulator use.

Restrictions on use For professional formulator use. Not for direct consumer application.

Details of the supplier of the safety data sheet

Supplier Essentials by Catalina, Inc.
12781 Temescal Canyon Rd.
Corona, CA 92883 USA
Tel: (951) 674-4444
Email: hello@essentialsbycatalina.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 / International +1 703-527-3887

Customer Contract Number: <EBC CHEMTREC CONTRACT # — REPLACE BEFORE DISTRIBUTION>

2. Hazard(s) Identification

Classification of the substance or mixture

Hazard Class	Category
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity — repeated exposure (STOT-RE)	Category 2
Hazardous to the aquatic environment — acute	Category 1
Hazardous to the aquatic environment — chronic	Category 2

Hazards not otherwise classified (HNOC)

None known.

Label elements



Signal word: Danger

Pictograms: Corrosion (GHS05), Health Hazard (GHS08), Environment (GHS09)

Note: Insert official GHS pictogram images in place of the placeholder diamonds for final printed labels.

Hazard statements

H315 — Causes skin irritation.

H318 — Causes serious eye damage.

H373 — May cause damage to organs through prolonged or repeated exposure.

H400 — Very toxic to aquatic life.

H411 — Toxic to aquatic life with long lasting effects.

Precautionary Statements — Prevention

P260 — Do not breathe dust.

P264 — Wash skin thoroughly after handling.

P273 — Avoid release to the environment.

P280 — Wear protective gloves, eye protection, and face protection.

Precautionary Statements — Response

P302 + P352 — IF ON SKIN: Wash with plenty of soap and water.

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 or 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.

P391 — Collect spillage.

Precautionary Statements — Disposal

P501 — Dispose of contents and container to an approved waste disposal plant.

3. Composition / Information on Ingredients

Substance: Not applicable. **Mixture.**

Chemical name	CAS No.	Weight %	Trade secret
Docosyltrimethylammonium methyl sulphate (behentrimonium methosulfate)	81646-13-1	30 - 60	*

**The actual concentration or concentration range is withheld as a trade secret. Balance of formulation consists of non-hazardous components including cetyl alcohol (CAS 36653-82-4) and additional fatty alcohol carriers; these components are not required to be disclosed under 29 CFR 1910.1200 hazard classification thresholds but are listed in Section 15 for state right-to-know compliance.*

4. First-aid Measures

Description of 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

Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. See Sections 2 and 11 for details.

5. Fire-fighting Measures

Flammable properties

Flash point > 311 °F / > 155 °C

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 hazards during fire fighting Do not use a solid water stream as it may scatter and spread the fire. Do not allow run-off from fire fighting to enter drains or water courses.

Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required.

Methods and material for containment and cleaning up

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

7. Handling and Storage

Precautions for safe handling

Advice on protection against fire and explosion Normal measures for preventive fire protection.

Advice on safe handling Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in original container. Keep container tightly closed in a dry and well-ventilated place.

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

Storage stability Keep in a dry place. Stable under recommended storage conditions.

8. Exposure Controls / Personal Protection

Control parameters

This product contains no substances with occupational exposure limit values.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Wax-like solid

Color No data available

Odor Characteristic

Property	Value
Odor threshold	No data available
pH (3% solution)	4.5 – 7.0
Melting point / range	81.5 – 82.7 °C / 178.7 – 180.9 °F
Freezing point	No data available
Boiling point (or initial boiling point or boiling range)	No data available
Flash point	> 155 °C / > 311 °F
Evaporation rate	Not applicable

Property	Value
Flammability (solid, gas)	No data available
Upper flammability / explosion limit	Not applicable
Lower flammability / explosion limit	Not applicable
Vapor pressure	No data available
Relative vapor density	Not applicable
Density	0.5781 – 0.5833 g/cm ³
Relative density	No data available
Water solubility	Dispersible
Solubility in other solvents	Not determined
Partition coefficient n-octanol/water (log value)	No data available
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity (dynamic)	No data available
Viscosity (kinematic)	Not applicable
Particle characteristics (size, distribution)	No data available

10. Stability and Reactivity

Reactivity	No data available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions.
Conditions to avoid	None known.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	In case of fire, hazardous decomposition products may be produced, such as: hydrogen chloride gas; carbon oxides; nitrogen oxides (NOx).

11. Toxicological Information

Acute toxicity — Product

Acute oral toxicity	LD50 (Rat, male and female): > 5,000 mg/kg. GLP: yes. Based on data obtained from similar substances.
Acute inhalation toxicity	No data available.
Acute dermal toxicity	Acute toxicity estimate: > 5,000 mg/kg. Method: Calculation method.

Acute toxicity — Component: Docosyltrimethylammonium methyl sulphate

Acute oral toxicity	LD50 Oral (Rat, female): 3,190 mg/kg. Method: OECD Test Guideline 401. GLP: yes.
Acute dermal toxicity	LD50 Dermal (Rabbit, male and female): 4,350 mg/kg. Method: OPPTS 870.1200. GLP: yes.

Skin corrosion / irritation

Product (Rabbit, 24 h, 25% test substance)	Slight irritation. GLP: yes. Based on data obtained from similar substances.
Component assessment	Docosyltrimethylammonium methyl sulphate: Irritating to skin.

Serious eye damage / eye irritation

Product	No data available.
Component (Rabbit)	Irreversible effects on the eye. Assessment: Corrosive.

Respiratory or skin sensitization

Product (Human patch test, 25% test substance)	Does not cause skin sensitization. GLP: yes.
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Germ cell mutagenicity

Test type	Test system	Metabolic activation	Result
Ames test	Salmonella typhimurium	Yes	Negative
Ames test	Escherichia coli	Yes	Negative
Chromosome aberration (in vitro)	Chinese hamster ovary cells	Yes	Negative

All mutagenicity data: GLP yes, 25% test substance, based on data from similar substances.

Carcinogenicity No data available.

Reproductive toxicity No data available.

STOT — repeated exposure (component) May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity (component) NOAEL: 10 mg/kg/day. Based on data from similar substances.

12. Ecological Information

Ecotoxicity

Product — Toxicity to fish No data available.

Component — Acute aquatic toxicity Docosyltrimethylammonium methyl sulphate: Very toxic to aquatic life.

Component — Chronic aquatic toxicity Docosyltrimethylammonium methyl sulphate: Toxic to aquatic life with long lasting effects.

Persistence and degradability

Product — Biodegradability Expected to be biodegradable only at low concentrations or when its germicidal action has been effectively neutralized.

Component — Biodegradability OECD 301B; inoculum: activated sludge; concentration: 0.2 mg/L; biodegradation: 80%; exposure time: 28 days. Readily biodegradable.

Bioaccumulative potential

Component — Partition coefficient (n-octanol/water) log Pow: 3.01 (68 °F / 20 °C). Method: OECD Test Guideline 107.

Mobility in soil No data available.

Other adverse effects No data available.

13. Disposal Considerations

Disposal methods

Waste from residues Dispose of in accordance with local regulations.

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.

14. Transport Information

US Domestic Transport (DOT / 49 CFR)

DOT (US ground) **Not regulated as a dangerous good.** Per 49 CFR 171.4, the exception for Marine Pollutants is applied for shipping non-bulk packaging only (receptacle < 400 kg / 882 lbs) in motor vehicles.

International Transport

For international shipments (air, ocean, or non-US ground), this product is classified under UN 3077 as an Environmentally Hazardous Substance, Solid, N.O.S. Details below.

Mode	UN Number	Proper Shipping Name	Class	PG	Marine Pollutant
UN RTDG	UN 3077	Environmentally hazardous substance, solid, n.o.s. (Docosyltrimethylammonium methyl sulphate)	9	III	Yes
IATA-DGR (air)	UN 3077	Environmentally hazardous substance, solid, n.o.s. (Docosyltrimethylammonium methyl sulphate)	9	III	Yes

Mode	UN Number	Proper Shipping Name	Class	PG	Marine Pollutant
IMDG (ocean)	UN 3077	Environmentally hazardous substance, solid, n.o.s. (Docosyltrimethylammonium methyl sulphate)	9	III	Yes

Labels 9 (UN RTDG, IMDG); Miscellaneous (IATA)

IATA packing instructions 956 (both cargo and passenger aircraft)

IMDG EmS-No. F-A, S-F

Transport in bulk (IMO instruments) Not applicable for product as supplied.

Transport classifications are for informational purposes only and are based on the properties of the unpackaged material. Classifications may vary by mode of transport, package size, and regional or country regulations.

15. Regulatory Information

US Federal Regulations

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

SARA 311/312 Hazards Skin corrosion or irritation; Serious eye damage or eye irritation.

SARA 313 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.

California Proposition 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical name	CAS No.	Pennsylvania	New Jersey	Massachusetts
Docosyltrimethylammonium methyl sulphate	81646-13-1	X	X	—
1-Hexadecanol (cetyl alcohol)	36653-82-4	X	X	—
Butylene glycol	107-88-0	X	X	—
Amines, C16-22-alkyldimethyl	75444-69-8	—	X	—

International Chemical Inventories

Inventory	Status
TSCA (US)	Product either contains a chemical substance not listed on the public TSCA Inventory or the TSCA Inventory status has not been evaluated. For FDA uses only.
DSL (Canada)	All components on Canadian DSL.
EINECS/ELINCS (EU)	See REACH — Registered for import by authorized entities only.
REACH (EU)	Registered for import by authorized entities only.
ENCS (Japan)	On the inventory, or in compliance with the inventory.
ISHL (Japan)	On the inventory, or in compliance with the inventory.
IECSC (China)	On the inventory, or in compliance with the inventory.
AICS (Australia)	On the inventory, or in compliance with the inventory.
TCSI (Taiwan)	On the inventory, or in compliance with the inventory.

16. Other Information

NFPA Hazard Rating	HMIS II Hazard Rating
Health: 3 Flammability: 0 Instability: 0 Special hazards: —	Health: 3 Flammability: 0 Reactivity: 0

*NFPA/HMIS scale: 0 = Not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme; * = Chronic health hazard.*

Key references and sources used to compile this SDS

Component-level data sourced from the original manufacturer (Croda Inc., SDS HA41122, version 3.0, revision dated 22 December 2025; first issued 3 March 2016), supplemented by referenced OECD Test Guidelines (301B, 107, 401), OPPTS 870.1200, and standard regulatory inventories (TSCA, DSL, REACH, ENCS, ISHL, IECSC, AICS, TCSI).

Abbreviations and acronyms used in this SDS

ATE: Acute Toxicity Estimate · CAS: Chemical Abstracts Service · CMR: Carcinogen, Mutagen or Reproductive Toxicant · DOT: Department of Transportation (United States) · EHS: Extremely Hazardous Substance · EmS: Emergency Schedule · GHS: Globally Harmonized System · GLP: Good Laboratory Practice · HMIS: Hazardous Materials Identification System · IATA-DGR: International Air Transport Association Dangerous Goods Regulations · IMDG: International Maritime Dangerous Goods · LC50/LD50: Lethal Concentration/Dose to 50% of test population · log Pow: Log of partition coefficient (n-octanol/water) · NFPA: National Fire Protection Association · NOAEL: No Observed Adverse Effect Level · n.o.s.: Not Otherwise Specified · OECD: Organisation for Economic Co-operation and Development · OPPTS: Office of Prevention, Pesticides, and Toxic Substances (US EPA) · OSHA: Occupational Safety and Health Administration · PG: Packing Group · REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (EU) · SARA: Superfund Amendments and Reauthorization Act · SDS: Safety Data Sheet · STOT-RE: Specific Target Organ Toxicity — Repeated Exposure · TSCA: Toxic Substances Control Act (US) · UN: United Nations · UN RTDG: UN Recommendations on the Transport of Dangerous Goods.

Revision history

Revision Date	22 Dec 2025
Revision Number	1
Revision Notes	Initial issuance of EBC-branded SDS for this product, derived from manufacturer data (Croda SDS HA41122, version 3.0, revision dated 22 Dec 2025).

Disclaimer

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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