



# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** ChemConx BTMS 50

**Chemical name:**

Preparation of alkyltrimethylammonium methyl sulphate

**Synonyms:**

Behentrimonium Methosulfate & Cetearyl Alcohol  
Alkyltrimethyl Ammonium Methyl Sulfate  
Behentrimonium Methosulfate and Cetearyl Alcohol  
Behenyl Trimethyl Ammonium Methosulfate  
Docosyltrimethyl Ammonium Methyl Sulfate and Cetearyl Alcohol

**Recommended restrictions**

**Recommended use:** Personal care

**Restrictions on use:** None known.

**Manufacturer/Importer/Distributor Information**

Company Name: Chemistry Connection  
253 Sturgis Road  
Conway, AR 72034  
Telephone: (501) 470-9689  
Email: contact@thechemistryconnection.com

**Emergency telephone number:** (888) 583-7738

During business hours (8am - 5pm Mon-Fri)

**Emergency telephone number:** (800) 424-9300 CHEMTREC

After business hours

## 2. Hazard(s) identification

**Hazard Classification**

**Health Hazards**

Skin irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Repeated Exposure (Oral)	Category 2 <sup>1</sup>

**Target Organs**

1. Gastro-intestinal tract.

**Environmental Hazards**

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 2

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Causes skin irritation.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure if swallowed.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Response:** IF ON SKIN: Wash with plenty of soap and water. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Chemical name:**

Preparation of alkyltrimethylammonium methyl sulphate

**Mixtures**

Chemical Identity	CAS number	Content in percent (%) <sup>*</sup>
Docosyltrimethylammonium methyl sulphate	81646-13-1	>=30 - <50%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

**Description of necessary first-aid measures**

**Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Skin Contact:** Wash affected area with soap and water. Launder clothing before reuse.

**Eye contact:** Immediately flush with large amounts of water for at least 15 minutes or more. Lifting upper and lower lids intermittently. See a physician or ophthalmologist and show this data sheet.

**Ingestion:** Immediately drink two large glasses of water. Call a physician.

**Personal Protection for First-aid Responders:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

**5. Fire-fighting measures**

**General Fire Hazards:** Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray.

**Unsuitable extinguishing media:** Full water jet

**Specific hazards arising from the chemical:** Formation of oxides of carbon, nitrogen oxides and sulfur compounds.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** None known. Keep away from sources of ignition - no smoking. Take action to prevent static discharges.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep away from sources of ignition - no smoking. High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation.

**Methods and material for containment and cleaning up:** Pick up mechanically Dispose of absorbed material in accordance with the regulations.

**Environmental Precautions:** Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.



## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.
<b>Safe handling advice:</b>	Avoid contact with skin and eyes. Do not inhale vapours or dust
<b>Contact avoidance measures:</b>	No data available.No data available.
<b>Hygiene measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not store near heat or open flame.
<b>Safe packaging materials:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.  
Hazardous components without workplace control parameters

<b>Appropriate Engineering Controls</b>	Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.
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### Individual protection measures, such as personal protective equipment

<b>Eye/face protection:</b>	Chemical splash proof goggles.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Additional Information: Wear protective gloves such as: Neoprene or Buna-N.
<b>Skin and Body Protection:</b>	No other protective clothing is required. Normal work clothing such as long pants and long sleeves are recommended.
<b>Respiratory Protection:</b>	None required under normal use.
<b>Hygiene measures:</b>	No data available.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	solid
<b>Form:</b>	Pellets
<b>Color:</b>	White to Slightly Yellow
<b>Odor:</b>	Slight, Typical
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	no data available
<b>Melting Point:</b>	not measured
<b>Boiling Point:</b>	not measured
<b>Flash Point:</b>	> 200 °F (Penskey-Marten CC)

**Evaporation Rate:** Slower than ether  
**Flammability (solid, gas):** no data available

**Explosive limit - upper (%):** not measured  
**Explosive limit - lower (%):** not measured  
**Vapor pressure:** 0.01 hPa (30 °C)  
**Vapor density (air=1):** Heavier than air  
**Density:** approx. 0.87 g/cm<sup>3</sup>  
**Relative density:** No data available.  
**Solubility(ies)**  
**Solubility in Water:** Insoluble  
**Solubility (other):** not measured  
**Partition coefficient (n-octanol/water):** not measured  
**Self Ignition Temperature:** not measured  
**Decomposition Temperature:** not measured  
**Kinematic viscosity:** No data available.  
**Dynamic viscosity:** Not applicable  
  
**Other information**  
**Explosive properties:** not measured  
**Oxidizing properties:** not measured  
**Metal Corrosion:** not measured

## 10. Stability and reactivity

**Reactivity:** see section "Possibility of hazardous reactions"  
**Chemical Stability:** The product is stable under normal conditions.  
**Possibility of hazardous reactions:** No Reactions with strong oxidizing agents.  
**Conditions to avoid:** Avoid contact with strong oxidants.  
**Incompatible Materials:** Unknown  
**Hazardous Decomposition Products:** None with proper storage and handling.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation:** If handled correctly, not a relevant route of exposure. Information on effects are given below.  
**Skin Contact:** Relevant route of exposure. Information on effects are given below.  
**Eye contact:** Relevant route of exposure. Information on effects are given below.  
**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects are given below.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.



**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** no data available

**Dermal**

**Product:** no data available  
Acute toxicity estimate : > 5,000 mg/kg

**Inhalation**

**Product:** no data available

**Repeated dose toxicity**

**Product:** no data available

**Skin Corrosion/Irritation**

**Product:** Some people may experience skin sensitization from contact with this product.  
This material may cause moderate irritation to the skin.

**Serious Eye Damage/Eye Irritation**

**Product:** This material may cause severe irritation to the eyes.  
This material may cause severe irritation to the eyes.

**Respiratory or Skin Sensitization**

**Product:** no data available

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity****In vitro****Product:** No data available.**Components:**Docosyltrimethylammoniu  
m methyl sulphate

Ames test (OECD 471): negative The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
gene mutation test (OECD 476): negative The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Cytogenetic Test (chromosome aberration) (OECD 487): negative The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**In vivo****Product:** No data available.**Reproductive toxicity****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** no data available**Specific Target Organ Toxicity - Repeated Exposure****Product:** no data available**Aspiration Hazard****Product:** Not classified**Other effects:**

Causes skin irritation. Causes serious eye damage. May cause damage to organs.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** LC 50 (Rainbow Trout, 96 h): 96 mg/l**Aquatic Invertebrates****Product:** EC 50 (Daphnia magna, 48 h): 55 mg/l**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to Aquatic Plants****Product:** EC 50 (Selenastrum capricornutum, 96 h): 0.25 mg/l

## Persistence and Degradability

### Biodegradation

**Product:** No data available.

### BOD/COD Ratio

**Product:** No data available.

## Bioaccumulative potential

### Bioconcentration Factor (BCF)

**Product:** No data available.

## Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

**Mobility in soil:** No data available.

### Components:

Docosyltrimethylammonium methyl sulphate No data available.

**Other adverse effects:** Do not allow to enter soil, waterways or waste water canal.

## 13. Disposal considerations

**Disposal methods:** Incinerate in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted facilities is recommended.

**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

## 14. Transport information

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Alkyltrimethylammonium methyl sulphate)

Class : 9

Packing group : III

Labels : 9

ERG Code : 171

Marine pollutant : yes

### International Regulations

#### IATA-DGR





**SAFETY DATA SHEET**  
**ChemConx BTMS 50**

Revision Date: 03/15/2019

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Alkyltrimethylammonium methyl sulphate)

Class : 9

Packing group : III

Labels : 9MI

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

Environmentally hazardous : yes

Remarks : Environmentally hazardous

**IMDG-Code**

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Alkyltrimethylammonium methyl sulphate)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

Remarks : Stowage category A

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

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

<b>15. Regulatory information</b>
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**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs)  
(40 CFR 721, Subpt E)**

None present or none present in regulated quantities.



**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

**SARA 311/312 Hazardous Chemical**

**Chemical Identity**

**Threshold Planning Quantity**

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

Canada DSL Inventory List:

Included on Inventory.

US TSCA Inventory:

Not in compliance with the inventory.

**HMIS Hazard ID**

<b>Health</b>	<input type="text" value="2"/>
<b>Flammability</b>	<input type="text" value="1"/>
<b>Physical Hazards</b>	<input type="text" value="0"/>
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>

Consult supervisor for special handling instructions for these substances.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 03/15/2019

**Version #:** 1.0

**Further Information:** CTFA: complies

**Revision Information:** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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