



SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: 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: SOPHIX NATURAL AND AGRO PRODUCTS LTD
 5, Olayinka Owodunni Street, Off Sule Abore, Behind NNPC Filling
 Station, Ojodu Berger, Lagos
 Telephone: +234 7061111838

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 ¹

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
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Chemical name:

Preparation of alkyltrimethylammonium methyl sulphate

Mixtures

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

^{*} 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

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

Storage

Safe storage conditions:	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.
Safe packaging materials:	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

Appropriate Engineering Controls

Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

Individual protection measures, such as personal protective equipment

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

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Pellets
Color:	White to Slightly Yellow
Odor:	Slight, Typical
Odor Threshold:	not measured
pH:	no data available
Melting Point:	not measured
Boiling Point:	not measured
Flash Point:	> 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 ³
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.
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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: Docosyltrimethylammonium 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

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.

15. Regulatory information

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

Health		2
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		X

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

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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.

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall SOPHIX NATURAL AND AGRO PRODUCTS LTD assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations.