

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:

BTMS PELLETS

Chemical name:

alkyltrimethylammonium methyl sulphate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Industrial Use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

: XI'AN AOGU Company Name

BIOTECH CO.,LTD

Telephone : +29-89121514 Fax : +86-29-89121514 E-mail : info@imaherb.com

1.4 Emergency telephone number:

24-Hour Health

Emergency

: +86-29-89121514

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin irritation Category 2 H315: Causes skin irritation.

Serious Eye Damage/Eye H318: Causes serious eye damage. Category 1

Irritation

Specific Target Organ Toxicity -Category 2¹. H373: May cause damage to organs through

Repeated Exposure (Oral)

prolonged or repeated exposure if swallowed.

1. Gastro-intestinal tract.

Environmental Hazards

Acute hazards to the aquatic Category 1 H400: Very toxic to aquatic life.

environment

Chronic hazards to the aquatic Category 2 H411: Toxic to aquatic life with long lasting

environment effects.

2.2 Label Elements

MT

Contains: Docosyltrimethylammonium methyl sulphate

1/12 2022-01-07





Signal Words: Danger

Hazard Statement(s): H315: Causes skin irritation.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated

exposure if swallowed.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing. P280: Wear eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310: Immediately call a POISON CENTER/doctor.

P332+P313: If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards None known.

SECTION 3: Composition/information on ingredients

Chemical name:

Preparation of alkyltrimethylammonium methyl sulphate

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Docosyltrimet	>=25 - <30%	81646-13-1	279-791-1	01-	No data	
hylammonium				2119949051-	available.	
methyl sulphate				44		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Classification	Notes
Docosyltrimethylammoniu m methyl sulphate	Skin Irrit.: 2: H315; Eye Dam.: 1: H318; STOT RE: 2: H373; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

[#] This substance has workplace exposure limit(s).

^{##} This substance is listed as SVHC



SECTION 4: First aid measures

General: Remove contaminated clothing.

4.1 Description of first aid measures

Inhalation: Ensure supply of fresh air. In the event of symptoms take medical

treatment.

Skin Contact: In case of contact with skin wash off immediately with plenty of water

Consult a doctor if skin irritation persists.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek

medical advice

Ingestion: Thoroughly clean the mouth with water Do not induce vomiting. Call for

medical advice immediately; show this safety data sheet

4.2 Most important symptoms and effects, both acute and

delayed:

No information is on file to date regarding acute and/or delayed post-

exposure symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: Cool endangered containers with water spray jet. Fire residues and

contaminated firefighting water must be disposed of in accordance with the local regulations. Collect contaminated firefighting water separately, must

not be discharged into the drains.

5.1 Extinguishing media

Suitable extinguishing

media:

foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing

media:

Full water jet

5.2 Special hazards arising from the substance or

mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Sulphur oxides - Nitrogen oxides (NOx) Under certain fire

conditions, traces of other toxic products may occur.

5.3 Advice for firefighters

Special fire fighting

procedures:

Keep away from sources of ignition - no smoking. Take action to prevent

static discharges.

Special protective

equipment for fire-fighters:

Do not inhale explosion and/or combustion gases Use self-contained

breathing apparatus and wear protective suit

SECTION 6: Accidental release measures

6.1 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.

6.1.1 For non-emergency

personnel:

No data available.



6.1.2 For emergency responders:

No data available.

6.2 Environmental Precautions: Do not allow to enter drains or waterways Do not discharge into the

subsoil/soil.

6.3 Methods and material for containment and cleaning

up:

Pick up mechanically Dispose of absorbed material in accordance with the

regulations.

6.4 Reference to other

sections:

For further information on exposure monitoring and disposal see sections 8

and 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Avoid contact with skin and eyes. Do not inhale vapours or dust Handle and open container with care. Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good ventilation when handling

large quantities. Avoid raising dust.

7.2 Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed, cool and dry

7.3 Specific end use(s): No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

mical name	Туре	Exposure Limit Values	Source
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DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
Docosyltrimethylammonium methyl sulphate	Workers	Inhalation	Long-term systemic effects; 0.6 mg/m3	
	Workers	Dermal	Long-term systemic effects; 3 mg/kg bw/day	
	general populace	Inhalation	Long-term systemic effects;	No hazard identified
	general populace	Dermal	Long-term systemic effects;	No hazard identified
	general populace	Oral	Long-term systemic effects;	No hazard identified

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks	
Docosyltrimethylammonium methyl sulphate	Fresh water	13 µg/l		
	marine water	1.3 µg/l		
	intermittent release	14 μg/l		
	sewage treatment plant (STP)	0.43 mg/l		
	freshwater sediment	1.25 mg/kg sediment d.w.		
	Marine sediments	0.125 mg/kg sediment d.w.		
	soil	1 mg/kg (dry weight)		



8.2 Exposure controls

Appropriate Engineering

Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles

Hand Protection: Additional Information: gloves made of chloroprene (CR, e.g. Neoprene)

Skin and Body Protection: light protective clothing

Respiratory Protection: in case of formation of vapours/dusts: Short term: filter apparatus, Filter P2

Hygiene measures: Keep away from foodstuffs and beverages. Wash hands before breaks and

immediately after handling the product. Remove soiled or soaked clothing

immediately. Do not eat, drink or smoke when working.

Environmental Controls: The environmental regulations on the control and monitoring of

environmental exposures are to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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: > 93 °C

Evaporation Rate: No data available. Flammability (solid, gas): no data available Flammability Limit - Upper (%): not measured Flammability Limit - Lower (%): not measured Vapor pressure: 0.01 hPa (30 °C) Vapor density (air=1): No data available. approx. 0.87 g/cm3 Density: No data available. Relative density:

Solubility(ies)

Solubility in Water:
Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

Decomposition Temperature:

No data available.

Dynamic viscosity:

Insoluble
not measured
not measured
No data available.
Not applicable

9.2 Other information

Explosive properties: not measured **Oxidizing properties:** not measured



Minimum ignition temperature: not measured **Metal Corrosion:** not measured

SECTION 10: Stability and reactivity

10.1 Reactivity: see section "Possibility of hazardous reactions"

10.2 Chemical Stability: The product is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Reactions with strong oxidizing agents.

10.4 Conditions to avoid: Avoid contact with strong oxidants.

10.5 Incompatible Materials: Unknown

10.6 Hazardous Decomposition

Products:

None with proper storage and handling.

SECTION 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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: no data available

Components:

Docosyltrimethylammoniu

m methyl sulphate

LD 50 (Rat): 3,190 mg/kg

Dermal

Product: no data available

Components:

Docosyltrimethylammo

nium methyl sulphate

LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

no data available **Product:**

Components:

Docosyltrimethylammoniu

No data available.

m methyl sulphate

Repeated dose toxicity

No data available.

Product: Components:

Docosyltrimethylammoniu

m methyl sulphate

NOAEL (Rat(male and female), oral: gavage, daily): 10 mg/kg No observed adverse effect level (Rat(male and female), oral: gavage,

daily):



Skin Corrosion/Irritation:

Product: No data available.

Components:

Docosyltrimethylammo nium methyl sulphate

OECD 404 (Rabbit, 4 h): Irritating. Own test result.

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Components:

Docosyltrimethylammo Risk of serious damage to eyes.

OECD 405 (Rabbit): Risk of serious damage to eyes. Own test result. nium methyl sulphate

Respiratory or Skin Sensitization:

Product: no data available

Components:

Docosyltrimethylammo nium methyl sulphate

Maximization Test (GPMT), OECD 406 (Guinea Pig): not sensitizing

Own test result.

Germ Cell Mutagenicity

In vitro

No data available. **Product:**

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

No data available. Product:

Components:

Docosyltrimethylammoniu m methyl sulphate

No data available.

Carcinogenicity

Product: No data available.

Components:

Docosyltrimethylammoniu m methyl sulphate

No data available.

Reproductive toxicity

Product: No data available.

Components:

Docosyltrimethylammoniu No data available.

m methyl sulphate

Specific Target Organ Toxicity - Single Exposure



Product: no data available

Components:

Docosyltrimethylammoniu

No data available.

m methyl sulphate

Specific Target Organ Toxicity - Repeated Exposure

Product: no data available

Components:

Docosyltrimethylammoniu m methyl sulphate

Oral: Gastro-intestinal tract. - May cause damage to organs through

prolonged or repeated exposure.

Aspiration Hazard

Product: Not classified

Components:

Docosyltrimethylammoniu

No data available.

m methyl sulphate

Other adverse effects:

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

organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LC 50 (Rainbow Trout, 96 h): 96 mg/l

Components

Docosyltrimethylammoniu m methyl sulphate

LC 50 (Danio rerio (zebra fish), 96 h): 3.5 mg/l (OECD 203) river water The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): 55 mg/l

Components

Docosyltrimethylammoniu m methyl sulphate

EC 50 (Daphnia magna (Water flea), 48 h): 1.39 mg/l (OECD 202) Stream water The data are derived from the evaluations or test results achieved with

similar products (conclusion by analogy).

Toxicity to Aquatic Plants

Product: EC 50 (Selenastrum capricornutum, 96 h): 0.25 mg/l

Components

Docosyltrimethylammoniu m methyl sulphate

Toxicity to microorganisms

Product: No data available.

Components

Docosyltrimethylammoniu m methyl sulphate

EC 50 (activated sludge, 3 h): 43 mg/l (OECD 209) This information is derived from evaluation of or a test result for a similar compound (conclusion

based on analogy).

EC10 (Activated sludge, 3 h): 9.5 mg/l (OECD 209) This information is



derived from evaluation of or a test result for a similar compound (conclusion based on analogy).

Chronic Toxicity

Fish

Product: No data available.

Components

Docosyltrimethylammoniu m methyl sulphate

NOEC (Danio rerio (zebra fish), 9 d): 0.24 mg/l (OECD 212) This information

is derived from evaluation of or a test result for a similar compound

(conclusion based on analogy).

Aquatic Invertebrates

Product: No data available.

Components

Docosyltrimethylammoniu m methyl sulphate

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Docosyltrimethylammoniu No data available. m methyl sulphate

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

No data available. Product

Components

Docosyltrimethylammoniu m methyl sulphate

No data available.

12.3 Bioaccumulative potential

Product: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB

assessment:

No data available.

Docosyltrimethylam monium methyl

sulphate

Non-classified vPvB substance Non-

classified PBT substance

12.6 Other adverse effects: Do not allow to enter soil, waterways or waste water canal. The product is

> classified as extremely hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters

(WwSV).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.



Disposal methods: In accordance with local authority regulations, take to special waste

incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver

must be informed about possible hazards.

SECTION 14: Transport information

14.1 UN number

 ADR
 : UN 3077

 IMDG
 : UN 3077

 IATA
 : UN 3077

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Alkyltrimethylammonium methyl sulphate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Alkyltrimethylammonium methyl sulphate)

IATA : Environmentally hazardous substance, solid, n.o.s.

(Alkyltrimethylammonium methyl sulphate)

14.3 Transport hazard class(es)

 ADR
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

Remarks : Stowage category A

IATA (Cargo aircraft only)

Packing instruction (cargo : 956

aircraft)

Packing instruction (LQ) : Y956
Packing group : III
Labels : 9MI

Remarks : Environmentally hazardous

IATA (Passenger and cargo

aircraft)

Packing instruction : 956

(passenger aircraft)



Packing instruction (LQ) : Y956
Packing group : III
Labels : 9MI

Remarks : Environmentally hazardous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger and

cargo aircraft)

Environmentally hazardous : yes

IATA (Cargo aircraft only)

Environmentally hazardous : yes

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

E1. Hazardous to the aquatic environment 100 t 200 t

National Regulations

15.2 Chemical safety assessment:

No chemical safety assessment was carried out for this product.

International regulations