

# SAFETY DATA SHEET (EC 1907/2006)

## VARISOFT BTMS PELLETS

Version: **3.0 / GB** VA-No.  
Revision date: **10.09.2018**  
Issue date: 12.12.2013  
replaces version: 2.5  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : VARISOFT BTMS PELLETS  
Chemical Name : Preparation of alkyltrimethylammonium methyl sulphate

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

Relevant applications identified : Organic conditioner for cosmetic formulations  
Applications which are not advised : None known.

#### 1.3. Details of the supplier of the safety data sheet

Company : Gracefruit Ltd  
209 Glasgow Road  
Longcroft  
Bonnybridge  
FK4 1QQ

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin irritation	Category 2	H315
Serious eye damage	Category 1	H318
Specific target organ toxicity - repeated exposure (Oral, Gastrointestinal tract)	Category 2	H373
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 2	H411

#### 2.2. Label elements

Constituent decisive for hazardous-substance labeling : docosyltrimethylammonium methyl sulphate; CAS-No.: 81646-13-1

Symbol(s) :



Signal word : Danger

Hazard statement : H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H373 - May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.  
H410 - Very toxic to aquatic life with long lasting effects.

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- Precautionary Statement (Prevention) : P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P280 - Wear eye protection/ face protection.
- Precautionary Statement (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

Preparation of alkyltrimethylammonium methyl sulphate

### 3.1. Substances

-

### 3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
docosyltrimethylammonium methyl sulphate	81646-13-1 279-791-1 01-2119949051-44	>= 25 % - < 30 %	Skin Irrit., 2, H315 Eye Dam., 1, H318 STOT RE, 2, H373, Oral Aquatic Acute, 1, H400 Aquatic Chronic, 2, H411

Texts of H phrases, see in Chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- General advice : Remove contaminated clothing.
- 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

- Symptoms : 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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Unsuitable extinguishing media : Full water jet

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## 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

Do not inhale explosion and/or combustion gases

Use self-contained breathing apparatus and wear protective suit

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.

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## 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.

### 6.2. 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.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Advice on safe handling : Open and handle container with care.  
Provide good ventilation of working area (local exhaust ventilation if necessary).  
Provide good ventilation when handling large quantities.  
Avoid raising dust.
- Hygiene measures : Keep away from foodstuffs and beverages.  
Wash hands before breaks and after work.  
Remove soiled or soaked clothing immediately.  
Do not eat, drink or smoke when working.
- General protective measures : Avoid contact with eyes and skin  
Do not inhale vapours or dust

### 7.2. Conditions for safe storage, including any incompatibilities

#### Prevention of fire and explosion

- Information : Keep away from sources of ignition - no smoking  
Take precautionary measures against electrostatic loading.

#### Storage

- Information :
- Further information on storage conditions : Keep container tightly closed, cool and dry
- German storage class : 11

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## 7.3. Specific end use(s)

No further recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
Contains no substances with occupational exposure limit values.					

DNEL

: **docosyltrimethylammonium methyl sulphate**

End Use: Worker

Routes of exposure: inhalation

Possible health damage: Long-term systemic effects

Dose: 0,6 mg/m<sup>3</sup>

End Use: Worker

Routes of exposure: dermal

Possible health damage: Long-term systemic effects

Dose: 3 mg/kg bw/day

End Use: general populace

Routes of exposure: inhalation

Possible health damage: Long-term systemic effects

No hazard identified

End Use: general populace

Routes of exposure: dermal

Possible health damage: Long-term systemic effects

No hazard identified

End Use: general populace

Routes of exposure: Oral

Possible health damage: Long-term systemic effects

No hazard identified

PNEC

: **docosyltrimethylammonium methyl sulphate**

Environmental compartment: Fresh water

Dose: 13 µg/l

Environmental compartment: Marine water

Dose: 1,3 µg/l

Environmental compartment: intermittent release

Dose: 14 µg/l

Environmental compartment: sewage treatment plant (STP)

Dose: 0,43 mg/l

Environmental compartment: Fresh water sediment

Dose: 1,25 mg/kg sediment d.w.

Environmental compartment: Marine sediment

Dose: 0,125 mg/kg sediment d.w.

Environmental compartment: Soil

Dose: 1 mg/kg (dry weight)

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### 8.2. Exposure controls

Eye protection : Safety goggles  
Hand protection : gloves made of chloroprene (CR, e.g. Neoprene)  
  
Body Protection : light protective clothing  
Respiratory protection : in case of formation of vapours/dusts:  
Short term: filter apparatus, Filter P2

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : solid  
  
Form : Pellets  
Colour : white to slightly yellow  
Odour : slight, typical  
Odour Threshold : not measured  
  
pH : no data available  
  
Melting point : not measured  
  
Boiling point : not measured  
  
Flash point : > 93 °C  
  
Evaporation rate :  
Flammability : no data available  
  
Upper Explosion/Ignition Limit : not measured  
  
Lower explosion limit : not measured  
  
Vapour pressure : 0,01 hPa  
(30 °C)  
  
Relative vapour density :  
Relative density : no data available  
  
Solubility(ies) : not measured  
  
Water solubility : insoluble  
  
Partition coefficient: n-  
octanol/water : not measured  
Autoignition temperature : not measured  
  
Thermal decomposition : not measured  
  
Viscosity, kinematic : no data available  
  
Viscosity, dynamic : not applicable

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Explosive properties : not measured  
Oxidising properties : not measured  
Density : approx. 0,87 g/cm<sup>3</sup>

## 9.2. Other information

Metal corrosion : not measured  
Ignition temperature : not measured

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## 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.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : no data available

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : no data available

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

#### CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Specific Target Organ : no data available

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Toxicity - Single exposure

Specific Target Organ : no data available

Toxicity - Repeated exposure

Aspiration hazard : No aspiration toxicity classification

Other information : Causes skin irritation.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure.

## SECTION 12: Ecological information

### Ecotoxicology Assessment

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

### 12.1. Toxicity

Aquatoxicity, fish : Species: rainbow trout  
Exposure duration: 96 h  
LC50: 96 mg/l

Aquatoxicity, in vertebrates : Species: Daphnia magna  
Exposure duration: 48 h  
EC50: 55 mg/l

Aquatoxicity, algae / aquatic plants : Species: Selenastrum capricornutum  
Exposure duration: 96 h  
EC50: 0,25 mg/l

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

||| m-factor : docosyltrimethylammonium methyl sulphate  
Acute aquatic toxicity: 1  
Chronic aquatic toxicity: 1

### 12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

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Physico-chemical  
removability : no data available

Biochemical Oxygen Demand  
(BOD) : no data available

Chemical Oxygen Demand  
(COD) : no data available

relation of BOD/COD : no data available

Dissolved organic carbon  
(DOC) : no data available

Adsorbed organic bound  
halogens (AOX) : no data available

Distribution among  
environmental compartments : no data available

## 12.3. Bioaccumulative potential

Bioaccumulation : no data available

## 12.4. Mobility in soil

Environmental distribution : no data available

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

## 12.6. Other adverse effects

General Information : 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

Product : 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

### Transport on land (ADR/RID/GGVSEB)

4.1. UN number: UN 3077  
4.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Alkyltrimethylammonium methyl sulphate)  
4.3. Transport hazard class(es): 9  
4.4. Packing group: III  
14.5. Environmental hazards: Yes  
14.6. Special precautions for user: Yes



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**II** ADR: Tunnel Restriction Code: (-)

## Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number: UN 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Alkyltrimethylammonium methyl sulphate)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards: Yes  
14.6. Special precautions for user: No

## Air transport ICAO-TI/IATA-DGR

14.1. UN number: UN 3077  
14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
(Alkyltrimethylammonium methyl sulphate)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards: Yes  
14.6. Special precautions for user: Yes  
IATA-C: Environmentally hazardous  
IATA-P: Environmentally hazardous

## Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Alkyltrimethylammonium methyl sulphate)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards (Marine pollutant): Yes  
14.6. Special precautions for user: Yes  
EmS: F-A,S-F  
Stowage category A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
for transport approval see regulatory information

## SECTION 15: Regulatory information

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

#### National legislation

Technical instructions on Air Quality : 5.2.1

Major Accident Hazard Legislation : 9a  
ENVIRONMENTAL HAZARDS  
E1  
100 t  
200 t

Water contaminating class (Germany) : significantly water endangering  
Classification according to AwSV, Annex 1 (5.2)

Risk classification according to BetrSichV (Germany) : ---

### 15.2. Chemical safety assessment

Chemical safety assessment : No chemical safety assessment was carried out for this product.

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## SECTION 16: Other information

### List of references

Other information : Comply with national laws regulating employee instruction.

### Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Skin Irrit., 2, H315	Calculation method
Eye Dam., 1, H318	Calculation method
STOT RE, 2, H373	Calculation method
Aquatic Acute, 1, H400	On basis of test data.
Aquatic Chronic, 2, H411	Calculation method

### Relevant H phrases from chapter 3

H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 : Very toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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## Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization