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## MATERIAL SAFETY DATA SHEET

<b>ARTIKAMART</b> 309, Basement, Sector 21C, Faridabad, Haryana 121001, INDIA	<b>MSDS NUMBER</b> : 5287913 <b>PRODUCT CODE</b> : 2453254578 <b>DATE</b> : 19/02/2025
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### 1) Identification of the substance or mixture and of the supplier

**Product name:** Genamin BTMS  
**INCI Name:** Behentrimonium Methosulfate  
**Material number:** 237405  
**Use of the substance/preparation.**  
Industry sector : Personal Care  
Type of use : Surface active agent for cosmetics

### 2) COMPANY : ART VATIKA INSTITUTE

**Contact Person:** Mr. Harsh Aggarwal (For commercial and technical detail)  
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**Emergency telephone:** In case of chemical emergency involving transportation spills, leaks, fires or accidents.



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## 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin irritation, Category 2

H315: Causes skin irritation.

Serious eye damage, Category 1

H318: Causes serious eye damage.

Specific target organ toxicity - repeated exposure, Category 2

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

Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

### GHS label elements

Hazard pictograms

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Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. <b>Response:</b> 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/ doctor. P391 Collect spillage. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

## Hazardous components which must be listed on the label:

Docosyltrimethylammonium methosulphate

## Other hazards which do not result in classification

Flammable solvent vapours may collect in the vapour spaces of closed containers. Keep away from fire and other sources of ignition.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Docosyltrimethylammonium methosulphate	81646-13-1	>= 70 -< 90
Propan-2-ol	67-63-0	>= 10 -< 20

### 4. FIRST AID MEASURES

General advice	:	Get medical advice/ attention if you feel unwell. Remove/ Take off immediately all contaminated clothing.
If inhaled	:	Remove to fresh air.



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	Get medical attention if symptoms occur.
In case of skin contact	: In case of contact, immediately flush skin with soap and plenty of water.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	: irritant effects Causes skin irritation. Causes serious eye irritation.
Notes to physician	: Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray jet Alcohol-resistant foam
Unsuitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Dry powder High volume water jet
Specific hazards during firefighting	: In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Nitrogen oxides (NO <sub>x</sub> ) Sulphur trioxide
Special protective equipment for firefighters	: Self-contained breathing apparatus

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear suitable protective equipment. Ensure adequate ventilation. Keep away sources of ignition.
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	: Pick up mechanically. Rinse away rest with warm water.



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## 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : not highly flammable  
Take precautionary measures against electrostatic charging. In order to avoid electrostatic charging, do not roll or drag the drum, After transportation, the container should be allowed to stand for one hour before opening, thus allowing sufficient time for charge relaxation in the container. Flammable solvent vapours may collect in the vapour spaces of closed containers. Keep away from fire and other sources of ignition.
- Advice on safe handling : Provide adequate ventilation.  
Take measures to prevent the build up of electrostatic charge. Handle and open container with care.
- Conditions for safe storage : No special measures necessary.
- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep only in the original container at temperature not exceeding 40 °C  
hygroscopic  
Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI



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## Personal protective equipment

Respiratory protection	: not required under normal use In the case of dust or aerosol formation use respirator with an approved filter. Suitable mask with particle filter P3 (European Norm 143) Applicable national Regulations must be observed. Take note of the limitations regarding wear-time, in conjunction with the Regulations for the use of Respiratory Protective Equipment.
Hand protection	
Remarks	: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
Remarks	For short-term exposure (splash protection): Nitrile rubber gloves. Minimum thickness (glove): not determined With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.
Remarks	Long-term exposure Impervious butyl rubber gloves Minimum thickness (glove): not determined With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.
Eye protection	: Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)
Protective measures	: Do not inhale vapours Avoid contact with skin and eyes.
Hygiene measures	: Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: pellets
Colour	: white, to, light yellow



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Odour	:	of isopropanol
Odour Threshold	:	not tested.
pH	:	7.0 - 9.0 Concentration: 1 % Method: DIN EN 1262 Isopropanol/Water 1:1
Melting point	:	80 - 85 °C Method: DIN 51004
Boiling point	:	Decomposes below the boiling point.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Burning rate	:	265 s
Self-ignition	:	The substance or mixture is not classified as self heating.
Burning number	:	5 Complete combustion with flames
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	43 hPa Data relate to solvent
Relative vapour density	:	2.7 The data refer to the solvent
Density	:	0.9 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Solubility(ies) Water solubility	:	0.05 g/l soluble, turbid (70 °C)
Partition coefficient: n-	:	Not applicable



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octanol/water

Auto-ignition temperature : Not applicable

Decomposition temperature : approx. 288 °C  
Method: DTA

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Metal corrosion rate : Not applicable

Particle size : no data available

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## 10. STABILITY AND REACTIVITY

Reactivity : See section 10.3. "Possibility of hazardous reactions"

Chemical stability : Stable

The product is sensitive to light.  
hygroscopic

Possibility of hazardous reactions : Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

Conditions to avoid : Keep away from heat.  
Keep away from flames and sparks.

Incompatible materials : not known

Hazardous decomposition products : No decomposition if stored and applied as directed.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity : LD50(Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Information refers to the main component.

Acute inhalation toxicity : Remarks: not tested.





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Acute dermal toxicity : Remarks: not tested.

## **Components:**

### **Docosyltrimethylammonium methosulphate:**

Acute oral toxicity : LD50 (Rat, female): 3,190 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: By analogy with a product of similar composition

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Method: Other  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: By analogy with a product of similar composition

### **Propan-2-ol:**

Acute oral toxicity : LD50 (Rat, no data available): 5,840 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, no data available): 13,900 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

## **Skin corrosion/irritation**

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : irritating  
Remarks : Information refers to the main component.

## **Components:**

### **Docosyltrimethylammonium methosulphate:**



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Species : Rabbit  
Method : Other  
Result : Skin irritation  
Remarks : By analogy with a product of similar composition

## **Propan-2-ol:**

Species : Rabbit  
Exposure time : 4 h  
Method : Other  
Result : No skin irritation  
GLP : no

## **Serious eye damage/eye irritation**

### **Product:**

Species : rabbit eye  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.  
Remarks : Information refers to the main component.

### **Components:**

#### **Docosyltrimethylammonium methosulphate:**

Species : Rabbit  
Method : Other  
Result : Risk of serious damage to eyes.  
Remarks : By analogy with a product of similar composition

#### **Propan-2-ol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : no

## **Respiratory or skin sensitisation**

### **Product:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : non-sensitizing

### **Components:**

#### **Docosyltrimethylammonium methosulphate:**

Test Type : Maximisation Test



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Species : Guinea pig  
Method : Other  
Result : Not a skin sensitizer.  
  
Assessment : Causes skin irritation., Causes serious eye damage.

## **Propan-2-ol:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

## **Germ cell mutagenicity**

### **Product:**

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

### **Components:**

#### **Docosyltrimethylammonium methosulphate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: By analogy with a product of similar composition

Test Type: Mammalian cell gene mutation assay  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: By analogy with a product of similar composition

Test Type: Micronucleus test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
Remarks: By analogy with a product of similar composition

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects



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## **Propan-2-ol:**

**Genotoxicity in vitro** : Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster ovary cells  
Concentration: 500 - 5000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 100 - 10000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: no

**Genotoxicity in vivo**

: Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: ICR  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Exposure time: Single exposure  
Dose: 350-1173-2500-3500 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

**Germ cell mutagenicity -  
Assessment**

: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

## **Carcinogenicity**

### **Product:**

**Carcinogenicity -  
Assessment** : No information available.

### **Components:**

#### **Docosyltrimethylammonium methosulphate:**

**Carcinogenicity -  
Assessment** : No information available.

## **Propan-2-ol:**

**Species** : Rat, male and female



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Application Route : Inhalation  
Exposure time : 104 w  
Dose : 200 - 2500 - 5000 ppm  
Control Group : yes  
Frequency of Treatment : 6 hours/day, 5 days/week  
: ca. 12.29 mg/l  
Method : OECD Test Guideline 451  
GLP : yes  
  
Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

## Reproductive toxicity

### Product:

Reproductive toxicity - Assessment : No information available.

No information available.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Effects on fertility : Species: Rat, male and female  
Strain: wistar  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 30 mg/kg body weight  
General Toxicity F1: NOAEL: 30 mg/kg body weight  
Method: OECD Test Guideline 421

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

#### **Propan-2-ol:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Strain: wistar  
Application Route: Drinking water  
Dose: 0,5 - 1 - 2 %  
General Toxicity - Parent: NOAEL: 853 mg/kg body weight  
Method: OECD Test Guideline 415  
GLP: yes

Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley



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Application Route: oral (gavage)  
Dose: 100 - 500 - 1000 mg/kg  
General Toxicity - Parent: NOAEL: 500 mg/kg body weight  
General Toxicity F1: NOAEL: 500 mg/kg body weight  
General Toxicity F2: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development

: Test Type: Pre-natal  
Species: Rat  
Strain: wistar  
Application Route: Drinking water  
Dose: 0,5 - 1,25 - 2,5 %  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEL: 596 mg/kg body weight  
Developmental Toxicity: NOAEL: 596 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Test Type: Pre-natal  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 400 - 800 - 1200 mg/kg  
Duration of Single Treatment: 9 d  
General Toxicity Maternal: NOAEL: 400 mg/kg body weight  
Teratogenicity: NOAEL: 400 mg/kg body weight  
Developmental Toxicity: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment

: No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

## STOT - single exposure

### Product:

Remarks : not tested.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Remarks : no data available

#### **Propan-2-ol:**

Assessment : May cause drowsiness or dizziness.



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## STOT - repeated exposure

### Product:

Remarks : not tested.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Exposure routes : Oral  
Target Organs : Gastrointestinal tract  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **Propan-2-ol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Repeated dose toxicity

### Product:

Species : Rat  
NOAEL : 10 mg/kg  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
Remarks : Information refers to the main component.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Species : Rat, male and female  
NOAEL : 10 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28d  
Dose : 10, 50, 150 mg/kg/day  
Method : Other  
Target Organs : Gastrointestinal tract  
Remarks : By analogy with a product of similar composition

Repeated dose toxicity - Assessment : Causes skin irritation., Causes serious eye damage.

#### **Propan-2-ol:**

Species : Rat, male and female  
NOAEL : 12.5 mg/l  
Application Route : Inhalation



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Test atmosphere : vapour  
Exposure time : 2 a  
Number of exposures : 6 hours/day, 5 days/week  
Dose : 500 - 2500 - 5000 ppm  
Control Group : yes  
Method : Other  
GLP : yes

## Aspiration toxicity

### Product:

no data available

### Components:

#### **Docosyltrimethylammonium methosulphate:**

no data available

#### **Propan-2-ol:**

No aspiration toxicity classification

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other :  
aquatic invertebrates Remarks: not tested.

Toxicity to algae/aquatic :  
plants Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

#### Components:

#### **Docosyltrimethylammonium methosulphate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 3.5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203





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	Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1.39 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: By analogy with a product of similar composition
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 3.48 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: By analogy with a product of similar composition
Toxicity to microorganisms	: EC50 (activated sludge, domestic): 43 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 Remarks: By analogy with a product of similar composition
Toxicity to fish (Chronic toxicity)	: NOEC: 0.24 mg/l Exposure time: 9 d Species: Danio rerio (zebra fish) Test Type: semi-static test Method: OECD Test Guideline 212 Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 128 End point: Reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Remarks: By analogy with a product of similar composition
Toxicity to soil dwelling organisms	: Test Type: artificial soil 1,000 mg/kg Exposure time: 14 d End point: mortality Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 Remarks: By analogy with a product of similar composition
Sediment toxicity	: NOEC: 62.5 mg/kg dry weight (d.w.) Test Type: static test Species: Lumbriculus variegatus (Worm) Method: OECD 225 Remarks: By analogy with a product of similar composition



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## Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
End point: Immobilization  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae/aquatic plants : EC10 ( Scenedesmus quadricauda (Green algae)): ca. 1,800 mg/l  
End point: Growth rate  
Exposure time: 7 d  
Test Type: static test  
Analytical monitoring: no  
Method: Other  
GLP: no

Toxicity to microorganisms : EC10 (Pseudomonas putida): ca. 1,050 mg/l  
Exposure time: 16 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 T.8  
GLP: no

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Plant toxicity : IC50: 2,104 mg/l  
Exposure time: 3 d



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End point: Growth  
Species: Lactuca sativa (lettuce)  
Analytical monitoring: no  
Method: Other  
GLP: no

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

## **Persistence and degradability**

### **Product:**

Biodegradability : Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Information refers to the main component.

Biodegradation: > 80 %  
Method: OECD Test Guideline 302B

### **Components:**

#### **Docosyltrimethylammonium methosulphate:**

Biodegradability : Inoculum: activated sludge, domestic  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: Other  
Remarks: By analogy with a product of similar composition

#### **Propan-2-ol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 53 %  
Exposure time: 5 d  
Method: Directive 67/548/EEC, Annex V, C.5  
GLP: no

Stability in water : Remarks: Not applicable



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## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: not tested.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

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

#### **Propan-2-ol:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: 0.05  
pH: 25  
Method: No information available.

## Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: not tested.

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Distribution among environmental compartments : Medium: Other  
Koc: > 950 - < 516000, log Koc: > 3 - < 5.7  
Method: OECD Test Guideline 106  
Remarks: By analogy with a product of similar composition

Stability in soil : Test Type: Laboratory  
Soil temperature: 20 °C  
Dissipation time: 23.2 d  
Percentage dissipation: 50 % (DT50)  
Method: Other  
Remarks: By analogy with a product of similar composition

#### **Propan-2-ol:**

Distribution among environmental compartments : Remarks: Not applicable



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## Other adverse effects

### Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : no data available

### Components:

#### **Docosyltrimethylammonium methosulphate:**

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

#### **Propan-2-ol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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## 14. TRANSPORT INFORMATION

### **Road Transport India**

Class label: 9  
Correct Technical Name: Environmentally hazardous substance, solid, n.o.s.  
UN number: UN 3077  
HAZCHEM: 2Z  
Emergency dial: +65 3158 1198  
Specialist advice: BU Industrial & Consumer Specialties, Product Stewardship, +91 22 7125 1323



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## IATA

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN/ID number: UN 3077  
Primary risk: 9  
Remarks: Shipment permitted  
Hazard inducer(s): Behenyl trimethyl ammonium methosulfate

## IMDG

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN no. UN 3077  
Primary risk: 9  
Remarks: Shipment permitted  
Hazard inducer(s): Behenyl trimethyl ammonium methosulfate  
Marine pollutant: Marine Pollutant  
EmS : F-A S-F

## Further information

Non-dangerous good of class 9 for packagings  $\leq$  5 L / 5 kg

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## 15. REGULATORY INFORMATION

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

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

The factories act, 1948

The Motor Vehicles Acts, 1988

This product is classified and labelled in accordance with Indian regulations.

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## 16. OTHER INFORMATION

Revision Date : 01.09.2022

### Further information

Other information : Observe national and local legal requirements

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit

AIRC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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