

PRAEPAGEN TQ

0140

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Substance key: 000000103061

Revision Date: 21.09.2022

Version : 2 - 0 / IND

Date of printing : 27.02.2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade name**

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**Material number:** 183691**Use of the substance/preparation.**

Industry sector : Detergents KA

Type of use : Raw material for the production of soft wash rinsing agents

**Identification of the company**

Clariant Produkte (Deutschland) GmbH

65926 Frankfurt am Main

Telephone no. : +49 69 305 18000

**Information about the substance/preparation**

BU Care Chemicals

Product Stewardship

e-mail: SDS.Europe@clariant.com

**Emergency telephone number :** 00800-5121 5121

## 2. HAZARDS IDENTIFICATION

**GHS Classification**Long-term (chronic) aquatic hazard,  
Category 3

H412: Harmful to aquatic life with long lasting effects.

**GHS label elements**

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**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)
Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine,	1335202-88-4	>= 90 -<= 100

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di-Me sulfate-quaternized		
Propan-2-ol	67-63-0	>= 1 -< 10

#### 4. FIRST AID MEASURES

- General advice : Remove/ Take off immediately all contaminated clothing.
- If inhaled : Remove to fresh air.  
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 : If swallowed, seek medical advice immediately and show this container or label.
- Most important symptoms and effects, both acute and delayed : No symptoms known currently.  
No hazards known at this time.
- Notes to physician : Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

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

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and : Ensure adequate ventilation.  
Wear suitable protective clothing.

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- emergency procedures : Keep away sources of ignition.
- Environmental precautions : Do not allow to enter drains or waterways
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Traces of flammable substances can collect in the vapour space of closed systems, therefore keep sources of ignition away.  
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
- Advice on safe handling : Provide adequate ventilation.  
Handle and open container with care.
- Further information on storage conditions : - frost-sensitive - if the product becomes turbid as a result of exposure to low temperatures, warm it slowly to approx. 50°C and stir it. Before using the product, ensure that it is completely homogeneous.
- Packaging material : Suitable material: Stainless steel, glass, Polyethylene

## 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

### Personal protective equipment

- Respiratory protection : not required under normal use  
In the case of dust or aerosol formation use respirator with an approved filter.

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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

: Long-term exposure Impervious butyl rubber gloves Minimum thickness (glove): not determined The data about break through time/strength of material is not valid for undissolved solids/dust.

Remarks

For short-term exposure (splash protection): Nitrile rubber gloves. Minimum thickness (glove): not determined The data about break through time/strength of material is not valid for undissolved solids/dust.

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.

Eye protection

: Safety glasses

Protective measures

: Avoid contact with skin.  
Avoid contact with eyes.  
Do not inhale vapours

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Waxy/solid

Colour

: white to slightly yellow

Odour

: of isopropanol

Odour Threshold

: not determined

pH

: 2.5 - 3.5 (25 °C)  
Concentration: 50 g/l  
Method: DIN EN 1262

Melting point

: 45 - 55 °C

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Boiling point	:	approx. 92 °C
Flash point	:	Not applicable The lower explosion point was determined to be approximately 36 °C.
Flammability (solid, gas)	:	Not classified as supporting combustion according to the transport regulations. Method: UN-Test L.2
Self-ignition	:	The product melts below 160 °C. Therefore, no further testing of self-heating properties is required. The substance or mixture is not classified as pyrophoric.
Burning number	:	3 Local combustion without spreading
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	42 mbar (20 °C) The data refer to both the solvent and the solvent mixture
Relative vapour density	:	Not applicable
Density	:	approx. 0.961 g/cm <sup>3</sup> (60 °C) Method: OECD Test Guideline 109
Solubility(ies)		
Water solubility	:	dispersible
Solubility in other solvents	:	Description: soluble in isopropanol
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 280 °C Heating rate: 3 K/min Method: DSC The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	Not applicable
Explosive properties	:	There are no chemical groups associated with explosive

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properties present in the molecule.

Oxidizing properties	:	There are no chemical groups associated with oxidising properties present in the molecule.
Metal corrosion rate	:	Not corrosive to metals
Particle size	:	no data available

## 10. STABILITY AND REACTIVITY

Reactivity	:	See section 10.3. "Possibility of hazardous reactions"
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	not known
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity	:	Remarks: not tested.
Acute inhalation toxicity	:	Remarks: not tested.
Acute dermal toxicity	:	Remarks: not tested.

#### Components:

#### **Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: Regulation (EC) No. 440/2008, Annex, B.1 bis GLP: yes
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal

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toxicity

**|| 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:**

Remarks : not tested.

**Components:****|| Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

**|| Propan-2-ol:**

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

**Serious eye damage/eye irritation****Product:**

Remarks : not tested.

**Components:****|| Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species : Rabbit  
Method : OECD Test Guideline 405

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Result : No eye irritation  
GLP : yes

**|| Propan-2-ol:**

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

**Respiratory or skin sensitisation****Product:**

Remarks : not tested.

**Components:****|| Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

**|| 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 : No information available.

**Components:****|| Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

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  
GLP: yes

Test Type: Mammalian cell gene mutation assay  
Test system: Chinese hamster fibroblasts



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Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

Test Type: Chromosome aberration test in vitro  
 Test system: Chinese hamster lung cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative  
 GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
 Species: Mouse (male and female)  
 Strain: Other  
 Application Route: oral (gavage)  
 Dose: 5000 mg/kg bw  
 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

### || 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

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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:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Carcinogenicity - Assessment : No information available.

**Propan-2-ol:**

Species : Rat, male and female  
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:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Effects on fertility : Test Type: Other  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 100, 300, 1000 mg/kg bw/day  
Duration of Single Treatment: 28 d  
Frequency of Treatment: 1 days/week  
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
Method: Other

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GLP: yes

Test Type: Fertility/early embryonic development  
 Species: Rat, male and female  
 Strain: Sprague-Dawley  
 Application Route: oral (gavage)  
 Dose: 100, 300, 1000 mg/kg bw/day  
 Duration of Single Treatment: 36 d  
 General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
 General Toxicity F1: NOAEL: 1,000 mg/kg body weight  
 Method: OECD Test Guideline 421

Test Type: One generation study  
 Species: Rat, male and female  
 Strain: Sprague-Dawley  
 Application Route: oral (gavage)  
 Dose: 100, 300, 1000 mg/kg bw/day  
 Duration of Single Treatment: 70 d  
 General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
 General Toxicity F1: NOAEL: 1,000 mg/kg body weight  
 Method: OECD Test Guideline 443  
 Remarks: By analogy with a product of similar composition

Effects on foetal development

: Test Type: Pre-natal  
 Species: Rat, female  
 Strain: wistar  
 Application Route: oral (gavage)  
 Dose: 0, 50, 250, 1000 mg/kg bw/day  
 Duration of Single Treatment: 10 d  
 General Toxicity Maternal: NOAEC: 1,000 mg/kg body weight  
 Teratogenicity: NOAEL: 1,000 mg/kg body weight  
 Developmental Toxicity: NOAEL: 1,000 mg/kg body weight  
 Embryo-foetal toxicity: NOAEL: 1,000 mg/kg body weight  
 Method: OECD Test Guideline 414  
 GLP: yes

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:

##### **Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

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

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

Assessment : May cause drowsiness or dizziness.

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**STOT - repeated exposure****Product:**

Remarks : not tested.

**Components:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

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

**Propan-2-ol:**

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

**Repeated dose toxicity****Product:**

Remarks : not tested.

**Components:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species : Rat, male and female  
NOAEL : 1000 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 100, 300, 1000 mg/kg bw/day  
Control Group : yes  
Method : OECD Test Guideline 407  
GLP : yes

Species : Rat, male and female  
NOEL : 300 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 95 d  
Number of exposures : 5 days per week  
Dose : 100, 300, 1000 mg/kg bw/day  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : yes

**Propan-2-ol:**

Species : Rat, male and female  
NOAEL : 12.5 mg/l  
Application Route : Inhalation  
Test atmosphere : vapour  
Exposure time : 2 a

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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:**

**Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

No aspiration toxicity classification

**Propan-2-ol:**

No aspiration toxicity classification

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
 Remarks: not tested.

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:**

**Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.91 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Analytical monitoring: yes  
 Method: OECD Test Guideline 203  
 GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.23 mg/l  
 aquatic invertebrates End point: Immobilization  
 Exposure time: 48 h

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Test Type: static test  
 Analytical monitoring: yes  
 Method: Regulation (EC) No. 440/2008, Annex, C.2  
 GLP: yes

Toxicity to algae/aquatic plants : ErC50 ( Desmodesmus subspicatus (green algae)): 2.14 mg/l  
 End point: Growth rate  
 Exposure time: 72 h  
 Test Type: static test  
 Analytical monitoring: yes  
 Method: OECD Test Guideline 201  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

EC10 ( Desmodesmus subspicatus (green algae)): 1.48 mg/l  
 End point: Growth rate  
 Exposure time: 72 h  
 Test Type: static test  
 Analytical monitoring: yes  
 Method: OECD Test Guideline 201  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : EC50 (Pseudomonas putida): 60 mg/l  
 End point: Bacteria toxicity (respiration inhibition)  
 Exposure time: 0.5 h  
 Test Type: static test  
 Analytical monitoring: no  
 Method: DIN 38412  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

Toxicity to fish (Chronic toxicity) : NOEC: 0.224 mg/l  
 Exposure time: 30 d  
 Species: Danio rerio (zebra fish)  
 Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.984 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Method: OECD Test Guideline 211

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful 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

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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  
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 : Remarks: not tested.

Chemical Oxygen Demand (COD) : 2,218 mg/g  
Method: ISO/DIS 15705



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**Components:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 98.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

**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

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: The bioaccumulation potential of the main component of the mixture is expected to be low.

**Components:****Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 4.725 (25 °C)  
Method: Other  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

**Propan-2-ol:**

Bioaccumulation : Remarks: Not applicable

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

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**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: not tested.

**Components:****|| Propan-2-ol:**

Distribution among environmental compartments : Remarks: Not applicable

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Adsorbed organic bound halogens (AOX) : Remarks: Product does not contain any organic halogens.

Additional ecological information : no data available

**Components:****|| Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

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).

**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

**14. TRANSPORT INFORMATION****Road Transport India**

Emergency dial:

not restricted

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Specialist advice:	BU Care Chemicals, Product Stewardship
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

## 15. REGULATORY INFORMATION

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

The factories act, 1948

The Motor Vehicles Acts, 1988

Labelling in accordance with Indian regulations: This product does not require a hazard label in accordance with Indian regulations.

## 16. OTHER INFORMATION

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

AIIC - 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

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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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