

## HOSTAGEL PH1

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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
<b>Information of the substance/preparation:</b>	Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
<b>Emergency tel. number:</b>	+1 800-424-9300 CHEMTREC

**Trade name:** HOSTAGEL PH1  
**Material number:** 240111

**Primary product use:** Viscosifier  
**Chemical family:** Blend of amine components

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 4  
Skin corrosion : Category 1B  
Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

**Prevention:**

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P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
 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.  
 P363 Wash contaminated clothing before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Disposal:**

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

**Other hazards**

No additional hazards are known except those derived from the labelling.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-(Octadec-9-enylimino)bisethanol	25307-17-9	>= 70 - < 90
C18-Alkyltrimethyl ammonium chloride	112-03-8	>= 10 - < 20
Propylene Glycol	57-55-6	>= 5 - < 10
Propan-2-ol	67-63-0	>= 1 - < 5

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Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Remove/ Take off immediately all contaminated clothing.  
Get medical advice/ attention if you feel unwell.
- If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.
- If swallowed : Do NOT induce vomiting.  
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
The possible risks known are those derived from the labelling (see section 2).

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : 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>)  
Hydrogen chloride
- Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.  
Ensure adequate ventilation.  
Remove all sparking devices or ignition sources. Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak. collect into suitable container. Rinse residual with water. Do not allow to contaminate water sources, sewers or soil.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Prevent product from entering drains.  
Non-sparking tools should be used.  
Take measures to prevent the build up of electrostatic charge.  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
- Advice on safe handling : Store in a well ventilated area away from heat, sparks or open flames. Keep containers tightly closed when not in use. Wear proper protective equipment.
- Further information on storage conditions : Store in original container.  
Keep container closed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene Glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1

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		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA P0
		STEL	500 ppm 1,225 mg/m <sup>3</sup>	OSHA P0

**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

**Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**  
Remarks : Butyl Rubber, PVC Or Neoprene.

**Eye protection** : Chemical splash goggles with face shield.

**Skin and body protection** : Dermal contact should be prevented through the use of impervious clothing, footwear, and a face shield where splattering may occur.

**Protective measures** : Observe the usual precautions for handling chemicals.

**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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : liquid

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Colour	:	yellow to brown
Odour	:	amine-like
Odour Threshold	:	not determined
pH	:	8 - 9 (68 °F / 20 °C) Concentration: 1 % Method: DIN EN 1262
Melting point	:	approx. 59 °F / 15 °C Method: ISO 3016
Boiling point	:	approx. 180 °F / 82 °C Data relate to solvent
Flash point	:	113 °F / 45 °C  Method: DIN EN 22719 / ISO 2719 (closed cup), Seta closed cup Combustion test negative, does not support combustion, not classified as a hazardous substance.
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable Method: UN-Test L.2
Flammability (liquids)	:	Does not sustain combustion. Method: UN-Test L.2
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	12.7 %(V) Data relate to solvent
Lower explosion limit / Lower flammability limit	:	2 %(V) Data relate to solvent
Vapour pressure	:	43 mbar (68 °F / 20 °C) Data relate to solvent
Relative vapour density	:	2.1 The data refer to the solvent
Relative density	:	Not applicable
Density	:	approx. 0.905 g/cm <sup>3</sup> (77 °F / 25 °C) Method: DIN 51757

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Solubility(ies)		
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	797 °F / 425 °C Data relate to solvent
Decomposition temperature	:	> 662 °F / 350 °C Heating rate: 3 K/min Method: DSC Information refers to the main component.
Viscosity		
Viscosity, dynamic	:	approx. 130 mPa.s (approx. 77 °F / 25 °C) Method: DIN 53015
Viscosity, kinematic	:	Not applicable
Metal corrosion rate	:	Not applicable
Particle size	:	Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact  
Skin contact  
Ingestion  
Inhalation

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**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,169 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Acute toxicity estimate: 3,548 mg/kg  
Method: Calculation method

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Acute oral toxicity : LD50 (Rat, male and female): 1,260 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**C18-Alkyltrimethyl ammonium chloride:**

Acute oral toxicity : LD50 (Rat, male and female): 702.5 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: no data available

**Propylene Glycol:**

Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg  
Method: Other  
GLP: no

Acute inhalation toxicity : LC50 (Rabbit, no data available): > 317.042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist  
Method: Other  
GLP: no

Acute dermal toxicity : LD50 (Rabbit, no data available): > 2,000 mg/kg  
Method: Other  
GLP: no  
Assessment: The substance or mixture has no acute dermal 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



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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:**

Result : Causes burns.

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Causes burns.

**C18-Alkyltrimethyl ammonium chloride:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure  
GLP : yes

**Propylene Glycol:**

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

**Propan-2-ol:**

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

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

Result : Corrosive

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**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Result : Risk of serious damage to eyes.

**C18-Alkyltrimethyl ammonium chloride:**

Result : Risk of serious damage to eyes.

Remarks : Study not performed as the substance is corrosive.

**Propylene Glycol:**

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

GLP : No information available.

**Propan-2-ol:**

Species : Rabbit

Result : Irritating to eyes.

Method : OECD Test Guideline 405

GLP : no

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

Result : Does not cause respiratory sensitisation.

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Test Type : Maximisation Test

Species : Guinea pig

Method : Other

Result : Not a skin sensitizer.

Remarks : By analogy with a product of similar composition

Assessment : Harmful if swallowed., Causes severe skin burns and eye damage.

**C18-Alkyltrimethyl ammonium chloride:**

Test Type : Buehler Test

Exposure routes : Skin contact

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Not a skin sensitizer.

GLP : yes

Assessment : Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage., Causes serious eye damage.

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**Propylene Glycol:**

Test Type : Local lymph node assay (LLNA)  
 Exposure routes : Dermal  
 Species : Mouse  
 Method : OECD Test Guideline 429  
 Result : Not a skin sensitizer.  
 GLP : No information available.

Test Type : Maximisation Test  
 Exposure routes : Dermal  
 Species : Guinea pig  
 Method : OECD Test Guideline 406  
 Result : Not a skin sensitizer.  
 GLP : No information available.

**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:****2,2'-(Octadec-9-enylimino)bisethanol:**

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

Test Type: Mammalian cell gene mutation assay  
 Test system: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative

Test Type: Chromosome aberration test in vitro  
 Test system: Human lymphocytes  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative

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

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**C18-Alkyltrimethyl ammonium chloride:**

- 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: gene mutation test  
Test system: Chinese hamster fibroblasts  
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 fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes
- Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Propylene Glycol:**

- Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: <= 10 mg/plate  
Metabolic activation: with  
Method: Ames test  
Result: negative  
GLP: No information available.
- Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Concentration: 7,4 - 3810 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes
- Genotoxicity in vivo : Test Type: Chromosome Aberration Test  
Species: Rat (male)  
Strain: Sprague-Dawley  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: 6 - 24 - 48 h  
Dose: 30, 2500, and 5000 mg/kg  
Method: Other  
Result: negative

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GLP: no

Test Type: In vivo micronucleus test  
Species: Mouse (male)  
Cell type: Erythrocytes  
Application Route: Intraperitoneal injection  
Exposure time: 18 h  
Dose: 0, 2500, 5000, 10000, 15000 mg  
Method: Other  
Result: negative  
GLP: No information available.

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

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.



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General Toxicity F1: NOAEL: 125 mg/kg body weight  
 Method: OECD Test Guideline 422  
 Remarks: By analogy with a product of similar composition

Test Type: One generation study  
 Species: Rat, male and female  
 Strain: wistar  
 Application Route: oral (gavage)  
 General Toxicity - Parent: NOAEL: 150 mg/kg body weight  
 General Toxicity F1: NOAEL: 150 mg/kg body weight  
 Method: OECD Test Guideline 443

Effects on foetal development : Test Type: Pre-natal  
 Species: Rat, female  
 Strain: Sprague-Dawley  
 Application Route: oral (gavage)  
 Dose: 15, 50, 150 mg/kg/day  
 General Toxicity Maternal: NOAEL: 150 mg/kg body weight  
 Developmental Toxicity: NOAEL: 150 mg/kg body weight  
 Method: OECD Test Guideline 414  
 GLP: yes

Reproductive toxicity - Assessment : No toxicity to reproduction

**C18-Alkyltrimethyl ammonium chloride:**

Effects on fertility : Test Type: Two-generation study  
 Species: Rat, male and female  
 Strain: Sprague-Dawley  
 Application Route: oral (feed)  
 Dose: 250, 1000, 2000 ppm  
 General Toxicity - Parent: NOAEL: 250 mg/kg body weight  
 General Toxicity F1: NOAEL: 250 mg/kg body weight  
 Method: OECD Test Guideline 416  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Pre-natal  
 Species: Rabbit  
 Strain: NZW  
 Application Route: Dermal  
 Dose: 0, 10, 20 and 40 mg/kg bw/da  
 Duration of Single Treatment: 11 d  
 General Toxicity Maternal: NOAEL: 40 mg/kg body weight  
 Developmental Toxicity: NOAEL: 40 mg/kg body weight  
 Method: OECD Test Guideline 414  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

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

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**Propylene Glycol:**

Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Strain: CD1  
Application Route: Drinking water  
Dose: 1820 - 4800 - 10100 mg/kg  
General Toxicity - Parent: NOAEL: 10,100 mg/kg body weight  
General Toxicity F1: NOAEL: 10,100 mg/kg body weight  
General Toxicity F2: NOAEL: 10,100 mg/kg body weight  
Method: Other  
GLP: No information available.

Effects on foetal development : Test Type: Pre-natal  
Species: Mouse, female  
Strain: CD1  
Application Route: oral (gavage)  
Dose: 520 - 5200 - 10400 mg/kg  
Duration of Single Treatment: 9 d  
General Toxicity Maternal: NOAEL: 520 mg/kg body weight  
Teratogenicity: NOAEL: 1,040 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.

**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  
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



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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 : no data available

#### Components:

##### **2,2'-(Octadec-9-enylimino)bisethanol:**

Remarks : no data available

##### **C18-Alkyltrimethyl ammonium chloride:**

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

##### **Propylene Glycol:**

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

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

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Product:

Remarks : no data available

#### Components:

##### **2,2'-(Octadec-9-enylimino)bisethanol:**

Remarks : no data available

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**C18-Alkyltrimethyl ammonium chloride:**

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

**Propylene Glycol:**

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 : no data available

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Species : Rat, male and female  
 NOAEL : 30 mg/kg bw/day  
 Application Route : oral (gavage)  
 Exposure time : 28 d  
 Dose : 30, 100, 250/150 mg/kg/day  
 Method : OECD Test Guideline 407  
 Target Organs : Digestive organs

Species : Rat, male and female  
 NOAEL : 5 mg/kg bw/day  
 Application Route : oral (gavage)  
 Exposure time : 90 d  
 Dose : 5, 30, 150 mg/kg bw/d  
 Method : OECD Test Guideline 408

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes severe skin burns and eye damage.

**C18-Alkyltrimethyl ammonium chloride:**

Species : Rat, male and female  
 NOAEL : 113 mg/kg  
 Application Route : oral (feed)  
 Exposure time : 90 d  
 Dose : 22, 113 and 273 mg/kg bw/day  
 Control Group : yes  
 Method : OECD Test Guideline 408  
 Remarks : By analogy with a product of similar composition

Species : Rabbit, male and female

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NOAEL : 10 mg/kg  
Application Route : Dermal  
Exposure time : 28 d  
Number of exposures : 5 days/week for 4 wks  
Dose : 0 or 10 mg/kg/day  
Control Group : yes  
Method : OECD Test Guideline 410  
GLP : No information available.  
Remarks : By analogy with a product of similar composition

Repeated dose toxicity - Assessment : Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage., Causes serious eye damage.

### Propylene Glycol:

Species : Rat, male and female  
NOAEL : 1.700 - 2.100 mg/kg bw/day  
Application Route : oral (feed)  
Exposure time : 2 a  
Number of exposures : daily  
Dose : 200, 400, 900, 1700 mg/kg bw  
Control Group : yes  
Method : Other  
GLP : no

Species : Cat, male  
NOAEL : 443 mg/kg bw/day  
Application Route : oral (feed)  
Exposure time : 69 - 94 d  
Number of exposures : daily  
Dose : 80 - 4239 mg/kg  
Control Group : yes  
Method : Other  
GLP : no

Species : Rat, male and female  
LOEL : 0.16 mg/l  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Exposure time : 90 d  
Number of exposures : 6 hours/day, 5 days/week  
Dose : 0,16 - 1,01 - 2,18 mg/l  
Control Group : yes  
Method : Other  
GLP : No information available.

Species : Mouse, female  
NOAEL : 0.02  
Application Route : Dermal  
Exposure time : Lifespan  
Number of exposures : 2x / w  
Dose : 10-50-100% / 0.02 ml acetone  
Control Group : yes

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Method : Other  
GLP : no  
Remarks : No pathological findings

**Propan-2-ol:**

Species : Rat, male and female  
NOAEL : 12.5 mg/l  
Application Route : Inhalation  
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:****2,2'-(Octadec-9-enylimino)bisethanol:**

no data available

**C18-Alkyltrimethyl ammonium chloride:**

No aspiration toxicity classification

**Propylene Glycol:**

No aspiration toxicity classification

**Propan-2-ol:**

No aspiration toxicity classification

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks : The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.  
no data available

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

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.1 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203  
 Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.043 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes  
 Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 15,6  
 End point: Growth rate  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 86,7  
 End point: Growth rate  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0245 mg/l  
 End point: Reproduction rate  
 Exposure time: 21 d  
 Test Type: semi-static test

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Method: OECD Test Guideline 211

- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): 128 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209
- Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): 500 mg/kg  
Exposure time: 56 d  
End point: Body weight  
Method: OECD Test Guideline 222  
Remarks: By analogy with a product of similar composition
- Sediment toxicity : NOEC (*Lumbriculus variegatus* (Worm)): 84.6 mg/kg dry weight (d.w.)  
Analytical monitoring: yes  
Solvent: no  
Test Type: static test  
Exposure duration: 28 d  
Method: OECD 225  
Remarks: By analogy with a product of similar composition

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**C18-Alkyltrimethyl ammonium chloride:**

- Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 0.064 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.037 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (algae)): 0.113 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test

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Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

ErC10 (Pseudokirchneriella subcapitata (algae)): 0.068 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.032 mg/l  
End point: mortality  
Exposure time: 28 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00415 mg/l  
End point: mortality  
Exposure time: 21 d  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50: 130 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 216

Toxicity to soil dwelling organisms : Test Type: artificial soil  
LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Propylene Glycol:

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- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 40,613 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Mysidopsis bahia* (opossum shrimp)): 18,800 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 19,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- ErC50 (*Skeletonema costatum* (marine diatom)): 19,100 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value (Fish): 2,500 mg/l  
End point: Other  
Exposure time: 30 d  
Method: Other  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Ceriodaphnia spec.*): 13,020 mg/l  
End point: Reproduction rate  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Other  
GLP: No information available.
- Toxicity to microorganisms : NOEC (*Pseudomonas putida*): > 20,000 mg/l  
End point: Growth rate  
Exposure time: 18 h  
Test Type: Growth inhibition



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Analytical monitoring: no  
Method: Other  
GLP: no

Sediment toxicity : LC50: 6983 mg/kg dry weight (d.w.)  
Analytical monitoring: yes  
Solvent: no  
Duration: 10 d  
Test Type: static test  
Sediment: Natural sediment  
Basis for effect: mortality  
Method: Other  
GLP: yes

### 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 fish (Chronic toxicity) : Remarks: not required

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

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

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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 applicable

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 76 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: By analogy with a product of similar composition

Photodegradation : Sensitiser: OH  
Concentration: 500,000 1/cm3  
Degradation (indirect photolysis): 50 %  
Method: calculated

**C18-Alkyltrimethyl ammonium chloride:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 3 mg/l  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 77 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

**Propylene Glycol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l ThOD  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d

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Method: OECD Test Guideline 301F  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 50.3 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 90.6 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306  
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: no data available

#### Components:

##### **2,2'-(Octadec-9-enylimino)bisethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 23.4  
Method: calculated

Partition coefficient: n-octanol/water : log Pow: 3.4 (77 °F / 25 °C)  
pH: 5 - 6  
Method: OECD Test Guideline 123  
GLP: no

##### **C18-Alkyltrimethyl ammonium chloride:**

Bioaccumulation : Bioconcentration factor (BCF): 70.8  
Method: calculated

Partition coefficient: n-octanol/water : log Pow: 3.61 (77 °F / 25 °C)  
pH: 7  
Method: Other  
GLP: yes

### Propylene Glycol:

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Bioaccumulation : Bioconcentration factor (BCF): 0.09  
Method: calculated  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Partition coefficient: n-octanol/water : log Pow: -1.07 (68.9 °F / 20.5 °C)  
pH: 6.3  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

**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: no data available

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

Distribution among environmental compartments : Medium: Soil  
Koc: 90520  
Method: OECD Test Guideline 106  
Remarks: By analogy with a product of similar composition

**Propylene Glycol:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 0.46  
Method: other (calculated)

Stability in soil : Test Type: Laboratory  
Soil temperature: 77 °F / 25 °C  
Radio label: no  
Percentage dissipation: 96 - 98 %  
Method: Other  
GLP: no

**Propan-2-ol:**

Distribution among environmental compartments : Remarks: Not applicable

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

Additional ecological information : There is no data available for this product.

**Components:****2,2'-(Octadec-9-enylimino)bisethanol:**

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

**C18-Alkyltrimethyl ammonium chloride:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

**Propylene Glycol:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

**Propan-2-ol:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act

Authorization Act

Waste Code : D001

Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

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

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**SECTION 14. TRANSPORT INFORMATION****DOT Regulation:**

UN/NA-number: UN 2735  
Proper shipping name: Amines, liquid, corrosive, n.o.s.  
Technical Name: OLEYLAMINOXETHYLATE

Primary hazard class: 8

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Packing group: II

**IATA**

UN/ID number: UN 2735  
 Proper shipping name: Amines, liquid, corrosive, n.o.s.  
 Hazard inducer(s): OLEYLAMINOXETHYLATE

Primary risk: 8  
 Packing group: II  
 Remarks: Shipment permitted

**IMDG**

UN no.: UN 2735  
 Proper shipping name: Amines, liquid, corrosive, n.o.s.  
 Hazard inducer(s): OLEYLAMINOXETHYLATE

Primary risk: 8  
 Packing group: II  
 Marine pollutant: Marine Pollutant  
 EmS: F-A S-B

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

A characteristic waste RQ of 100 lbs applies to this product in a waste form: D001

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Propylene Glycol	57-55-6	>= 5 - < 10 %
Propan-2-ol	67-63-0	>= 1 - < 5 %

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**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

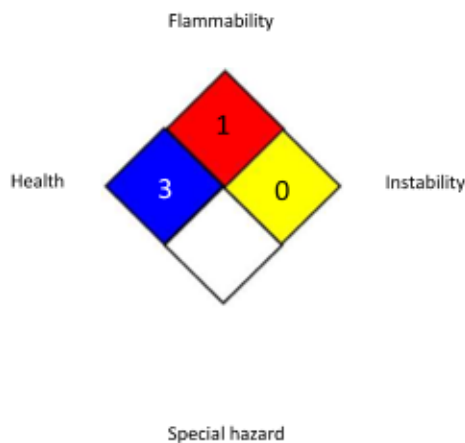
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**The components of this product are reported in the following inventories:**

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

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OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - 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

Observe all necessary precautions for handling flammable substances. Keep away from sources of heat and ignition. Smoking should be prohibited where material is being handled. Electrical grounding of equipment is required.

For additional information, contact Product Stewardship.

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