

## HOSTAGEL PH1

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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
<b>Information of the substance/preparation:</b>	Product Stewardship +1-704-331-7710
<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 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.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
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/

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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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

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 for extinction.

**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**

None known.

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

Substance / Mixture : Mixture

Substance name : Blend of amine components

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-(Octadec-9-enylimino)bisethanol	25307-17-9	60 - 80
Octadecyltrimethylammonium chloride	112-03-8	< 20
Propan-2-ol	67-63-0	< 4
Propylene Glycol	57-55-6	>= < 10

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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**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 : Remove contaminated clothing. Flush all affected areas with  
large amounts of water for at least 15 minutes. Seek medical  
attention immediately.
- 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).  
No additional symptoms are known.
- Notes to physician : None known.

**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.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- 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.
- Technical measures/Precautions : 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
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
	Further information: Central Nervous System impairment, Upper Respiratory Tract irritation, Eye irritation, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Not classifiable as a human carcinogen			
		STEL	400 ppm	ACGIH
	Further information: Central Nervous System impairment, Upper Respiratory Tract irritation, Eye irritation, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Not classifiable as a human carcinogen			

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		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
Further information: The value in mg/m3 is approximate.				
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
		PEL	400 ppm 980 mg/m3	CAL PEL
		STEL	500 ppm 1,225 mg/m3	CAL PEL
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL

**Engineering measures** : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

**Personal protective equipment**

**Respiratory protection** : If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

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

**Eye protection** : Tightly fitting safety goggles  
Face-shield

**Skin and body protection** : Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

**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** : paste

**Colour** : yellow to brownish

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Odour	:	amine-like
Odour Threshold	:	not tested.
pH	:	8 - 9 (20 °C) Concentration: 10 g/l Method: DIN EN 1262
Melting point	:	approx. 15 °C Method: ISO 3016
Boiling point	:	approx. 82 °C not determined Data relate to solvent
Flash point	:	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 tested.
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Upper explosion limit	:	12.7 %(V) Data relate to solvent
Lower explosion limit	:	2 %(V) Data relate to solvent
Combustion number :		Not applicable
Vapour pressure	:	43 mbar (20 °C) Data relate to solvent
Relative vapour density	:	2.1 The data refer to the solvent
Density	:	approx. 0.905 g/cm <sup>3</sup> (25 °C) Method: DIN 51757
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	miscible
Solubility in other solvents	:	not tested. Solvent: fat

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Partition coefficient: n-octanol/water	:	not tested.
Auto-ignition temperature	:	425 °C Data relate to solvent
Decomposition temperature	:	> 350 °C Heating rate : 3 K/min Method: DSC Information refers to the main component.
Viscosity		
Viscosity, dynamic	:	approx. 130 mPa.s (approx. 25 °C) Method: DIN 53015
Viscosity, kinematic	:	not tested.
Explosive properties	:	no data available
Oxidizing properties	:	Not applicable
Minimum ignition energy	:	not tested.
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

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Ingestion

Inhalation

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

Acute inhalation toxicity : Remarks: not tested.

**Components:****Propan-2-ol:**Acute oral toxicity : LD50 (Rat): 5,840 mg/kg  
Method: OECD Test Guideline 401  
GLP: noAcute inhalation toxicity : LC50 (Rat, male and female): > 25 mg/l  
Exposure time: 6 h  
Method: OECD Test Guideline 403  
GLP: yesAcute dermal toxicity : LD50 (Rabbit): ca. 12,800 mg/kg  
Method: OECD Test Guideline 402  
GLP: no**Propylene Glycol:**Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg  
Method: Other  
GLP: noAcute inhalation toxicity : LC50 (Rabbit): > 317.042 mg/l  
Exposure time: 2 h  
Method: Other  
GLP: noAcute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: Other  
GLP: no**Skin corrosion/irritation****Product:**

Remarks: not tested.

**Components:****Propan-2-ol:**Species: Rabbit  
Exposure time: 4 h  
Method: Other  
Result: No skin irritation  
GLP: no



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**Propylene Glycol:**

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

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

Remarks: not tested.

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

Species: rabbit eye  
Result: Severe eye irritation  
Method: OECD Test Guideline 405  
GLP: no

**Propylene Glycol:**

Species: rabbit eye  
Result: non-irritant  
Method: OECD Test Guideline 405  
GLP: No information available.

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

Remarks: not tested.

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

Test Type: Guinea pig maximization test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

**Propylene Glycol:**

Test Type: Guinea pig maximization test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: No information available.

Test Type: Mouse local lymphnode assay

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Exposure routes: Skin contact  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Does not cause skin sensitisation.  
GLP: No information available.

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : No information available.

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

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

: Test Type: Ames test  
Species: Salmonella typhimurium  
Concentration: 100 - 10000 µg/plate  
Metabolic activation: with and without  
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 : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**Propylene Glycol:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Concentration: <= 10 mg/plate  
Metabolic activation: with  
Method: Ames test  
Result: negative

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GLP: No information available.

: Test Type: Chromosome aberration test in vitro  
Species: Cultured peripheral human lymphocytes  
Concentration: 7,4 - 3810 µg/ml  
Metabolic activation: with and without  
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 - 5000 mg/kg  
Method: Other  
Result: negative  
GLP: no

Test Type: Chromosome Aberration Test  
Species: Mouse (male)  
Cell type: Erythrocytes  
Application Route: Intraperitoneal injection  
Exposure time: 18 h  
Dose: 2500-5000-10000-15000 mg/kg  
Method: Other  
Result: negative  
GLP: No information available.

Germ cell mutagenicity -  
Assessment

: It is concluded that the product is not mutagenic based on  
evaluation of several mutagenicity tests.

**Carcinogenicity****Product:**Carcinogenicity -  
Assessment

: No information available.

**Components:****Propan-2-ol:**Carcinogenicity -  
Assessment

: Did not show carcinogenic effects in animal experiments.

**Propylene Glycol:**Carcinogenicity -  
Assessment

: Not classifiable as a human carcinogen.

**IARC**

Not listed

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**OSHA** Not listed**NTP** Not listed**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

**Components:****Propan-2-ol:**Effects on fertility :  
Test Type: Two-generation study  
Species: Rat  
Sex: male and female  
Dose: 100 - 500 - 1000 mg/kg  
Frequency of Treatment: daily  
Sprague-Dawley  
Application Route: oral (gavage)  
Group: yes  
NOAEL: 500 mg/kg,  
F1: 500 mg/kg,  
F2: 500 mg/kg,  
Method: OECD Test Guideline 416  
GLP: yesEffects on foetal development : Species: Rat  
Application Route: oral (gavage)  
Exposure time: day 6 to 15 of gestation  
Dose: 400 - 800 - 1200 mg/kg  
Group: yes  
400 mg/kg  
400 mg/kg  
Number of exposures: daily  
Method: OECD Test Guideline 414  
GLP: yesReproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.**Propylene Glycol:**Effects on fertility :  
Test Type: Two-generation study  
Species: Mouse  
Sex: male and female  
Dose: 1820 - 4800 - 10100 mg/kg  
Exposure time: 126 d  
CD1

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Application Route: oral (gavage)  
NOAEL: 10,100 mg/kg,  
F1: 10,100 mg/kg,  
F2: 10,100 mg/kg,  
Method: Other  
GLP: No information available.

Effects on foetal development : Species: Mouse  
Application Route: oral (gavage)  
Exposure time: gestation day 6-15  
Dose: 52 - 520 - 10400 mg/kg  
Group: yes  
10,400 mg/kg  
52 mg/kg  
Number of exposures: daily  
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:****Propan-2-ol:**

Assessment: May cause drowsiness or dizziness.

**Propylene Glycol:**

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

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

Remarks: not tested.

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

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.

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

Remarks: not tested.

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

Application Route: Oral

Remarks: This information is not available.

Species: Rat, male and female

NOAEL: ca. 12.5 mg/l

Application Route: Inhalation

Exposure time: 2 a

Number of exposures: 6 hours/day, 5 days/week

Dose: 500 - 2500 - 5000 ppm

Group: yes

Method: Other

GLP: yes

Application Route: Skin contact

Remarks: This information is not available.

**Propylene Glycol:**

Species: Rat, male and female

NOAEL: 1,700 - 2,100 mg/kg

Application Route: oral (feed)

Exposure time: 2 a

Number of exposures: daily

Dose: 200-2100 mg/kg

Group: yes

Method: Other

GLP: no

Species: Cat, male

NOAEL: 443 mg/kg

Application Route: oral (feed)

Exposure time: 69 - 94 d

Number of exposures: daily

Dose: 80 - 4239 mg/kg

Group: yes

Method: Other

GLP: no

Species: Rat, male and female

NOAEL: 1 - 2.2 mg/l

Application Route: Inhalation

Exposure time: 90 d

Number of exposures: 6 hours/day, 5 days/week

Dose: 0,16 - 1,01 - 2,18 mg/l

Group: yes

Method: Other

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GLP: No information available.

Species: Mouse, female

NOAEL: 0.02

Application Route: Skin contact

Exposure time: Lifespan

Number of exposures: 2x / w

Dose: 10-50-100% / 0.02 ml acetone

Group: yes

Method: Other

GLP: no

Remarks: No pathological findings

**Aspiration toxicity****Product:**

no data available

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

No aspiration toxicity classification

**Propylene Glycol:**

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

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Toxicity to algae :  
Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

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

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

**Octadecyltrimethylammonium chloride:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 10

**Propan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 - 10,000 mg/l  
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  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae : EC10 (Scenedesmus quadricauda (Green algae)): ca. 1,800 mg/l  
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: aquatic  
Analytical monitoring: no



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	Method: DIN 38412 T.8 GLP: no
Toxicity to soil dwelling organisms	: Remarks: Not applicable
Plant toxicity	: IC50 ( <i>Lactuca sativa</i> (lettuce)): 2,100 mg/l Exposure time: 3 d End point: emergence Analytical monitoring: no Method: Other GLP: no
Sediment toxicity	: Remarks: Not applicable
Toxicity to terrestrial organisms	: Remarks: Not applicable
<b>Propylene Glycol:</b>	
Toxicity to fish	: LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 40,613 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: Other GLP: no
Toxicity to daphnia and other aquatic invertebrates	: LC50 ( <i>Mysidopsis bahia</i> (opossum shrimp)): 18,800 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: Other GLP: yes
Toxicity to algae	: EC50 ( <i>Pseudokirchneriella subcapitata</i> (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
	NOEC ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 15,000 mg/l End point: Growth rate Exposure time: 14 d 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 Exposure time: 30 d End point: Other Method: Other

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GLP: no

- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia spec.): 13,020 mg/l  
Exposure time: 7 d  
End point: Reproduction rate  
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: aquatic  
Analytical monitoring: no  
Method: Other  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : Remarks: The study is not necessary from a scientific perspective.
- Plant toxicity : Remarks: The study is not necessary from a scientific perspective.
- Sediment toxicity : Remarks: The study is not necessary from a scientific perspective.
- Toxicity to terrestrial organisms : Remarks: The study is not necessary from a scientific perspective.

**Persistence and degradability****Product:**

Biodegradability : Remarks: not tested.

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

Biodegradability : aerobic  
Inoculum: activated sludge, domestic  
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

**Propylene Glycol:**

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Biodegradability : aerobic  
Inoculum: activated sludge, domestic  
Concentration: 100 mg/l ThOD  
BOD in % of theoretical OD  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

aerobic  
Inoculum: activated sludge, domestic  
Concentration: 50.3 mg/l  
CO2 formation in % of theoretical value  
Result: Readily biodegradable.  
Biodegradation: 90.6 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306  
GLP: yes

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

Bioaccumulation : Remarks: not tested.

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

Bioaccumulation : Remarks: Not applicable

**Propylene Glycol:**Bioaccumulation : Bioconcentration factor (BCF): 0.09  
Method: calculated  
GLP: no**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: not tested.

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

Distribution among environmental compartments : Remarks: Not applicable

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

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

Additional ecological information : The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.  
This information is not available.

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

Environmental fate and pathways : not available  
Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
Additional ecological information : slightly water endangering  
Do not allow to enter ground water, waterways or waste water.

**Propylene Glycol:**

Environmental fate and pathways : not available  
Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
Additional ecological information : Do not allow to enter ground water, waterways or waste water.

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

RCRA - Resource Conservation and Recovery Authorization Act : No -- Not as sold.  
Waste Code : NONE  
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:**

Proper shipping name: Amines, liquid, corrosive, flammable, n.o.s.  
Hazard class: 8  
Packing group: II  
UN/NA-number: UN 2734  
Primary hazard class: 8

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Subsidiary hazard class: 3  
Technical Name: OLEYLAMINOXETHYLATE  
2-Propanol

**IATA**

Proper shipping name: Amines, liquid, corrosive, flammable, n.o.s.  
Class: 8  
Packing group: II  
UN/ID number: UN 2734  
Primary risk: 8  
Subsidiary risk: 3  
Remarks: Shipment permitted  
Hazard inducer(s): OLEYLAMINOXETHYLATE  
2-Propanol

**IMDG**

Proper shipping name: Amines, liquid, corrosive, flammable, n.o.s.  
Class: 8  
Packing group: II  
UN no.: UN 2734  
Primary risk: 8  
Subsidiary risk: 3  
Hazard inducer(s): OLEYLAMINOXETHYLATE  
2-Propanol  
Hazard inducer / Marine pollutant: OLEYLAMINOXETHYLATE  
Marine pollutant: Marine Pollutant  
EmS: F-E S-C

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****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 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

**Clean Water Act**

Contains no known priority pollutants at concentrations greater than 0.1%.

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

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TSCA : Listed on TSCA

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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; 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

**Further information**

Observe national and local legal requirements

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.

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# SAFETY DATA SHEET



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