

**GlucoTain Plus**

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**SECTION 1. IDENTIFICATION**

<b>Identification of the company:</b>	Clariant Produkte (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000
	<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

<b>Trade name:</b>	<b>GlucoTain Plus</b>
<b>Material number:</b>	289116
<b>Primary product use:</b>	Raw material for detergents
<b>Chemical family:</b>	Aqueous surfactant solution

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H318 Causes serious 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:**P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear eye protection/ face protection.

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**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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.

**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

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol	1591782-62-5	30 - 50
D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.	287735-50-6	20 - 30

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 : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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Get medical advice/ attention.

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 : Treat symptomatically.

**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)  
Carbon dioxide (CO<sub>2</sub>)

Further information : In the event of fire and/or explosion do not breathe fumes.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Self-contained breathing apparatus

Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly after handling.  
Wear proper protective equipment. Contain spill. Spills should be collected as a liquid or absorbed on suitable absorbant and placed in proper containers for disposal. Do not discharge into storm drains or the aquatic environment.

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.

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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.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Use only with adequate ventilation/personal protection.  
For personal protection see section 8.  
Avoid contact with skin, eyes and clothing.  
Use only with adequate ventilation.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash thoroughly after handling.
- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place.  
Handle and open container with care.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- 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 : Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of exposure.
- Hand protection  
Remarks : Butyl Rubber, PVC Or Neoprene.
- Eye protection : Chemical splash goggles with face shield.
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

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- Protective measures : Observe the usual precautions for handling chemicals.  
Avoid contact with skin and eyes.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
Use protective skin cream before handling the product.  
Take off immediately all contaminated clothing and wash it before reuse.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Liquid
- Colour : Colorless to yellow
- Odour : weak
- Odour Threshold : not determined
- pH : ca. 8.0 - 9.5 (77 °F / 25 °C)  
Concentration: 10 %
- Melting point : ca. 66 °F / 19 °C
- Initial boiling point : ca. 212 °F / 100 °C  
Based on water-content.
- Flash point : > 212 °F / > 100 °C  
Method: DIN 51758
- Evaporation rate : not determined
- Flammability (solid, gas) : Not applicable
- Self-ignition : no data available
- Upper explosion limit / upper flammability limit : no data available
- Lower explosion limit / Lower flammability limit : no data available
- Vapour pressure : 23 hPa  
Corresp. to vapour pressure of water
- Relative vapour density : no data available

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Density	:	ca. 1.06 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	(for a component of this mixture) not determined
Decomposition temperature	:	> 392 °F / > 200 °C
Viscosity	:	
Viscosity, dynamic	:	ca. 715 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	no data available
Flow time	:	no data available
Self-heating substances	:	no data available
Impact sensitivity	:	no data available
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	:	None known.
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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Inhalation  
Ingestion**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate: 1,337 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Acute toxicity estimate: 4,545 mg/kg  
Method: Calculation method**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**Acute oral toxicity : LD50 (Rat, female): 500 mg/kg  
Method: OECD Test Guideline 423  
GLP: yesAcute inhalation toxicity : LC50 (Rat, male and female): 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
GLP: yesAcute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: Information refers to the main component.

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.3.  
GLP: yes**Skin corrosion/irritation****Product:**

Result: No skin irritation

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**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Species: EPISKIN Human Skin Model Test

Exposure time: 15 min

Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

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

Result: Risk of serious damage to eyes.

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Species: Bovine cornea

Result: Irritating to eyes.

Exposure time: 4 h

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 437

GLP: yes

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Species: Rabbit

Result: Mild eye irritation

Exposure time: 35 d

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

GLP: yes

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

Result: non-sensitizing

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Test Type: Guinea pig maximization test



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

Assessment: Harmful if swallowed or if inhaled., Causes serious eye damage.

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

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

Test Type: Guinea pig maximization test  
Species: Guinea pig  
Method: Magnusson/Kligman  
Result: Not a skin sensitizer.  
GLP: yes

Assessment: Causes serious eye damage.

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

Germ cell mutagenicity - : No information available.  
Assessment

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 3,16 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster lung cells  
Concentration: 0,01 - 3,1 mM  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)

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Strain: NMRI  
Cell type: Erythrocytes  
Application Route: oral (gavage)  
Exposure time: 1x in 44 - 68 h  
Dose: 400 - 1000 - 2000 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

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 45 - 2250 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: Mutagenicity (Escherichia coli - reverse mutation assay)  
Test system: Escherichia coli  
Concentration: 15 - 1500 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 1,5 - 450 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: Mutagenicity (Escherichia coli - reverse mutation assay)  
Test system: Escherichia coli  
Concentration: 15 - 2250 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

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Test system: Chinese hamster ovary cells  
Concentration: 0,0065 - 0,1 mg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: Mouse lymphoma assay  
Test system: mouse lymphoma cells  
Concentration: 2,3 - 45 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: yes  
Remarks: Information refers to the main component.

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat (male)  
Strain: Sprague-Dawley  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: 6 - 12 h  
Dose: 180 - 600 - 1800 mg/kg  
Method: Other  
Result: negative  
GLP: yes

Test Type: Cytogenetic assay  
Species: Rat (female)  
Strain: Sprague-Dawley  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: 6 - 12 h  
Dose: 210 - 700 - 2100 mg/kg  
Method: Other  
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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**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Carcinogenicity - Assessment : No information available.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.  
No information available.

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Application Route: oral (gavage)  
Dose: 15 - 150 - 350 mg/kg  
General Toxicity - Parent: NOAEL: 150 mg/kg body weight  
General Toxicity F1: NOAEL: >= 350 mg/kg body weight  
Method: OECD Test Guideline 415  
GLP: yes  
Remarks: By analogy with a product of similar composition

Effects on foetal development

: Test Type: Pre-natal  
Species: Rat  
Application Route: Ingestion  
Dose: 14 - 150 - 363 mg/kg  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 150 mg/kg body weight  
Teratogenicity: NOAEL: > 363 mg/kg body weight  
Method: OECD Test Guideline 414  
Remarks: By analogy with a product of similar composition

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

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Strain: Other  
Application Route: oral (gavage)  
Dose: 15 - 150 - 350 mg/kg  
General Toxicity - Parent: NOAEL: 15 mg/kg body weight  
General Toxicity F1: NOAEL: 350 mg/kg body weight  
Method: Other  
GLP: yes

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 15 - 150 - 363 mg/kg  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 150 mg/kg body weight  
Teratogenicity: NOAEL: > 363 mg/kg body weight  
Method: Other  
GLP: yes

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

**STOT - single exposure****Product:**

Remarks: no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

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

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

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

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

Remarks: no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

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

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

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

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

Remarks: no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Species: Rat, male and female

NOAEL: 200 mg/kg

Application Route: oral (gavage)

Exposure time: 91 d

Number of exposures: daily

Dose: 10 - 50 - 200 - 500 mg/kg tgl.

Group: yes

Method: OECD Test Guideline 408

GLP: yes

Remarks: By analogy with a product of similar composition

Repeated dose toxicity - Assessment : Harmful if swallowed or if inhaled., Causes serious eye damage.

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Species: Rat, male and female

NOAEL: 200 mg/kg

Application Route: oral (gavage)

Exposure time: 91 d

Number of exposures: einmal täglich

Dose: 10 - 50 - 200 - 500 mg/kg tgl.

Group: yes

Method: OECD Test Guideline 408

GLP: yes

Remarks: Information refers to the main component.

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Repeated dose toxicity - Assessment : Causes serious eye damage.

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

no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

No aspiration toxicity classification

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

No aspiration toxicity classification

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

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

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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:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal

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concentration.

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 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: The details of the toxic effect relate to the nominal concentration.
- Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 200 mg/l  
Exposure time: 9 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 212  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 50 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling : Test Type: artificial soil



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- organisms NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg  
Exposure time: 56 d  
Method: OECD Test Guideline 222  
GLP: yes  
Remarks: Information refers to the main component.
- Plant toxicity : NOEC: 250 - 1,000 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- NOEC: 500 - 1,000 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Avena sativa (oats)  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- NOEC: 500 - 1,000 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Glycine max (G. soja)  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**
- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes
- LC100 (Danio rerio (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes

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- NOEC (Danio rerio (zebra fish)): 5.6 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes  
Remarks: No toxicity at the limit of solubility
- EC100 (Daphnia magna (Water flea)): 32 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes
- NOEC (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 30 mg/l  
End point: Growth rate  
Exposure time: 92 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- NOEC (Selenastrum capricornutum (green algae)): 5.6 mg/l  
End point: Growth rate  
Exposure time: 92 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to fish (Chronic toxicity) : LOEC (Pimephales promelas (fathead minnow)): 10 mg/l  
End point: Other  
Exposure time: 35 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes

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NOEC (Pimephales promelas (fathead minnow)): 4.8 mg/l  
End point: Other  
Exposure time: 35 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): approx. 6.8 mg/l  
End point: mortality  
Exposure time: 21 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes

LOEC (Daphnia magna (Water flea)): 8.9 mg/l  
End point: mortality  
Exposure time: 21 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes

NOEC (Daphnia magna (Water flea)): 4.3 mg/l  
End point: mortality  
Exposure time: 21 d  
Analytical monitoring: yes  
Method: Other  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): approx. 115 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no data available  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 (activated sludge, domestic): > 71 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: yes  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC (activated sludge, domestic): 8.9 mg/l  
End point: Bacteria toxicity (respiration inhibition)

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Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: yes  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 (*Pseudomonas putida*): > 140 mg/l  
Exposure time: 17 h  
Test Type: Other  
Analytical monitoring: no data available  
Method: DIN 38412 T.8  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms

: Test Type: artificial soil  
NOEC (*Eisenia fetida* (earthworms)):  $\geq$  1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: artificial soil  
NOEC (*Eisenia fetida* (earthworms)):  $\geq$  1,000 mg/kg  
Exposure time: 14 d  
End point: Body weight  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: Information refers to the main component.

Test Type: artificial soil  
LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: Information refers to the main component.

Plant toxicity

: EC50: > 1,000 mg/kg  
Exposure time: 16 d  
End point: Growth  
Test period: 18 d  
Species: *Avena sativa* (oats)  
Analytical monitoring: no data available  
Method: OECD Guide-line 208  
GLP: yes

NOEC: 320 mg/kg

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Exposure time: 16 d  
End point: Growth  
Test period: 18 d  
Species: Avena sativa (oats)  
Analytical monitoring: no data available  
Method: OECD Test Guideline 208  
GLP: yes

EC50: > 590 mg/kg  
Exposure time: 15 d  
End point: Growth  
Test period: 18 d  
Species: Lactuca sativa (lettuce)  
Analytical monitoring: no data available  
Method: OECD Test Guideline 208

NOEC: 320 mg/kg  
Exposure time: 15 d  
End point: Growth  
Test period: 18 d  
Species: Lactuca sativa (lettuce)  
Analytical monitoring: no data available  
Method: OECD Test Guideline 208

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

Biodegradability : Remarks: Not applicable

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 17 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 192 - 384 µg/l  
Test substance  
Biodegradation: 99 %  
Exposure time: 25 d  
Method: OECD Test Guideline 303A  
GLP: yes

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Physico-chemical removability : Remarks: Readily biodegradable, according to appropriate OECD test.

Stability in water : Test Type: abiotic  
Remarks: Not applicable

Photodegradation : Test Type: air  
Sensitiser: OH  
Concentration: 1.5 E+06 OH/cm3  
Degradation (indirect photolysis): 50 % Degradation half life: 1.7 h  
Method: other (calculated)  
GLP: no

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 10 mg/l  
CO2 formation in % of theoretical value  
Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 34 d  
Method: OECD Test Guideline 301B  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
CO2 formation in % of theoretical value  
Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 34 d  
Method: OECD Test Guideline 301B  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 10 mg/l  
Dissolved organic carbon (DOC)  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 34 d  
Method: OECD Test Guideline 301B  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Dissolved organic carbon (DOC)  
Result: Readily biodegradable.

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Biodegradation: 99 %  
Exposure time: 34 d  
Method: OECD Test Guideline 301B  
GLP: yes

Physico-chemical  
removability : Remarks: Readily biodegradable, according to appropriate  
OECD test.

Stability in water : Test Type: abiotic  
Hydrolysis: at 50 °C(10 %)  
Method: OECD Test Guideline 111  
GLP: yes

Test Type: abiotic  
Hydrolysis: at 50 °C(8 %)  
Method: OECD Test Guideline 111  
GLP: yes

Test Type: abiotic  
Hydrolysis: at 50 °C(8 %)  
Method: OECD Test Guideline 111  
GLP: yes

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

Bioaccumulation : Remarks: no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

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

Partition coefficient: n-  
octanol/water : log Pow: 1.43 (68 °F / 20 °C)  
pH: 9.36  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: no

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

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

Partition coefficient: n-  
octanol/water : Pow: 180 (approx. 68 °F / 20 °C)  
log Pow: 2.3 (approx. 68 °F / 20 °C)  
pH: 6.7 - 7.3  
Method: calculated  
GLP: yes

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

Distribution among environmental compartments : Remarks: no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Distribution among environmental compartments : adsorption  
Medium: water - soil  
Method: OECD Test Guideline 106  
Remarks: Not expected to adsorb on soil.

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Distribution among environmental compartments : Medium: water - soil  
Method: OECD Test Guideline 106  
Remarks: Not applicable

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

Additional ecological information : no data available

**Components:****1-Deoxy-1-(methyl-(C8-10-(even)-alkanoyl)amino)- D-Glucitol:**

Environmental fate and pathways : no data available

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

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**D-Glucitol, 1-deoxy-(methylamino)-, N-C12-14 acyl deriv.:**

Environmental fate and pathways : no data available

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

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.



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

- RCRA - Resource Conservation and Recovery Act  
Waste Code : This product, if discarded as sold, is not a Federal RCRA hazardous waste.  
: 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 not restricted
- IATA not restricted
- IMDG not restricted

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**SECTION 15. REGULATORY INFORMATION****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** : Acute toxicity (any route of exposure)  
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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

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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.

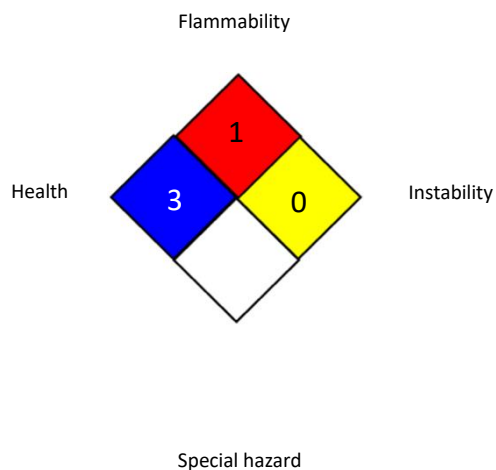
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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 of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FDA and must comply with the FDA regulations.

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

AIIC - 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;

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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; 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

Warning: This product is to be used as a cosmetic ingredient only. Any other use will subject the user to penalties under the Toxic Substances Control Act and its regulations. Avoid inhalation of this product in mist or aerosol forms.

For additional information, contact Product Stewardship.

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# SAFETY DATA SHEET



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