Substance key: 000000593720	Revision Date: 09/17/2024
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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Produkte (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000 **Information of the substance/preparation:** Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com **Emergency tel. number:** +1 800-424-9300 CHEMTREC

Trade name:	**GlucoTain Plus**
Material number:	289116
Primary product use:	Raw material for cosmetics
Primary product use:	Raw material for detergents
Chemical family:	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.

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.
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 (CO2)
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 (CO2)
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. 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	:	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.

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.
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
Density	:	ca. 1.06 g/cm3 (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
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: yes

Acute inhalation toxicity : LC50 (Rat, male and female): 2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

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
Assessment: The substance or mixture has no acute oral toxicity
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
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Result : No skin irritation

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 : Risk of serious damage to eyes.
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
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 - Assessment	:	No information available.

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) 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.

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.

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 - : No information available.

Assessment 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

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.

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.
Control 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.
Control Group	:	yes
Method	:	OECD Test Guideline 408
GLP	:	yes
Remarks	:	Information refers to the main component.
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).

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 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 organisms : Test Type: artificial soil
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

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 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)
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)): >= 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)): >= 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
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 (CO2)
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

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. 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

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	:	Substance is not persistent, bioaccumulative, 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
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

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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:

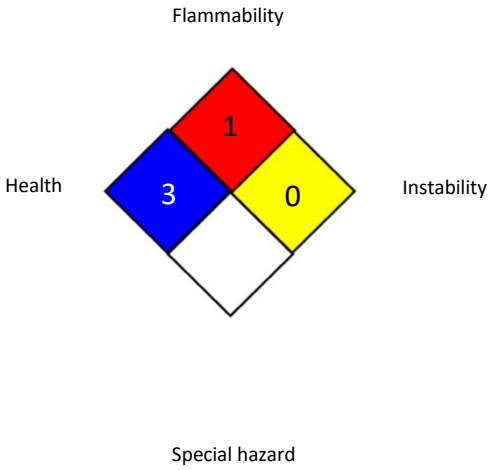
TSCA	:	All components of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT

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; 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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