

Glucopure Wet

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Substance key: 000000476402

Revision Date: 02/22/2022

Version : 8 - 4 / USA

Date of printing :09/20/2022

SECTION 1. IDENTIFICATION**Identification of the company:**

Clariant Corporation
500 East Morehead Street
Charlotte, NC, 28202
Telephone No.: +1 704 331 7000

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:****Glucopure Wet****Material number:**

272516

Primary product use:

Auxiliary for formulating plant protection products

Primary product use:

Raw material for detergents
Raw material for cosmetics

Chemical family:

Glucamide in aqueous/glycolic solution

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

Acute toxicity (Inhalation) : Category 4

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H332 Harmful if inhaled.

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

Prevention:

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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.

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	50 - 70
Propylene Glycol	57-55-6	1 - 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Remove/ Take off immediately all contaminated clothing.

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 : If conscious, give the patient 1-2 glasses of water (8-16 oz.) and call a doctor. Never give anything by mouth to an unconscious person. Induce vomiting only at the instructions

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of a doctor or nurse.

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)
Nitrogen oxides (NO_x)

Further information : Wear full protective clothing and self-contained breathing apparatus.

Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Wear suitable protective equipment.
Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak, remove all sparking devices or ignition sources, collect onto inert absorbent, and place in a suitable container.

Environmental precautions : Do not allow to enter drains or waterways

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

Advice on safe handling : Use only with adequate ventilation and proper protective

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eyewear, gloves, and clothing.

Further information on storage conditions : Keep container closed.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL

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 : yellow

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Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	8 - 9.5 Concentration: 10 % Method: DIN EN 1262
Melting point	:	approx. 50 °F / 10 °C
Boiling point	:	approx. 212 °F / 100 °C Based on water-content.
Flash point	:	No flash point - Measure made up to the boiling point.
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	> 752 °F / > 400 °C Information refers to the main component.
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	23 hPa (68 °F / 20 °C) Corresp. to vapour pressure of water
Relative vapour density	:	no data available
Density	:	approx. 1.078 g/cm ³ (68 °F / 20 °C) Method: DIN 51757
Solubility(ies)		
Water solubility	:	soluble (104 °F / 40 °C)
Solubility in other solvents	:	47 g/l (68 °F / 20 °C) Data corresponds to that of the active component Solvent: 1-octanol Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not tested.

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Decomposition temperature	:	> 392 °F / > 200 °C Heating rate: 3 K/min Method: DSC
Viscosity		
Viscosity, dynamic	:	approx. 36.4 mPa.s (104 °F / 40 °C) Method: ISO 2555
Viscosity, kinematic	:	approx. 35 mm2/s (104 °F / 40 °C) Method: ISO 2555
Explosive properties	:	Not explosive
Oxidizing properties	:	There are no chemical groups associated with oxidising properties present in the molecule.
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	:	Vapours may form explosive mixture with air.
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**

None known.

Acute toxicity**Product:**

Acute oral toxicity	:	LD50 (Rat): 5,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat): > 1 - 5 mg/l Exposure time: 4 h

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Test atmosphere: dust/mist
Method: OECD Test Guideline 436

Acute dermal toxicity : Acute toxicity estimate: 4,808 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): 5 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

Propylene Glycol:

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

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

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

Skin corrosion/irritation**Product:**

Remarks: no data available

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

Species: EPISKIN Human Skin Model Test
Exposure time: 15 min

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Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

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: no data available

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

Propylene Glycol:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: No information available.

Respiratory or skin sensitisation**Product:**

Remarks: no data available

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.

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Propylene Glycol:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: No information available.

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: No information available.

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: yesTest 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: yesGenotoxicity 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

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GLP: yes

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

Propylene Glycol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: ≤ 10 mg/plate
Metabolic activation: with
Method: Ames test
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 7,4 - 3810 $\mu\text{g/ml}$
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Rat (male)
Strain: Sprague-Dawley
Cell type: Bone marrow
Application Route: oral (gavage)
Exposure time: 6 - 24 - 48 h
Dose: 30, 2500, and 5000 mg/kg
Method: Other
Result: negative
GLP: no

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

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

Carcinogenicity**Product:**

Carcinogenicity - : No information available.

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Assessment

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

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

Propylene Glycol:

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

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

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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.

Propylene Glycol:

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

Effects on foetal
development : Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 520 - 5200 - 10400 mg/kg
Duration of Single Treatment: 9 d
General Toxicity Maternal: NOAEL: 520 mg/kg body weight
Teratogenicity: NOAEL: 1,040 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity -
Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

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.

Propylene Glycol:

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.

Propylene Glycol:

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

Propylene Glycol:

Species: Rat, male and female

NOAEL: 1.700 - 2.100 mg/kg bw/day

Application Route: oral (feed)

Exposure time: 2 a

Number of exposures: daily

Dose: 200, 400, 900, 1700 mg/kg bw

Group: yes

Method: Other

GLP: no

Species: Cat, male

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NOAEL: 443 mg/kg bw/day
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
LOEL: 0.16 mg/l
Application Route: Inhalation
Test atmosphere: dust/mist
Exposure time: 90 d
Number of exposures: 6 hours/day, 5 days/week
Dose: 0,16 - 1,01 - 2,18 mg/l
Group: yes
Method: Other
GLP: No information available.

Species: Mouse, female
NOAEL: 0.02
Application Route: Dermal
Exposure time: Lifespan
Number of exposures: 2x / w
Dose: 10-50-100% / 0.02 ml acetone
Group: yes
Method: Other
GLP: no
Remarks: No pathological findings

Aspiration toxicity**Product:**

no data available

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

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).

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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 concentration.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates 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 : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
plants 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 : NOEC (Danio rerio (zebra fish)): 200 mg/l
toxicity) Exposure time: 9 d

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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

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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.

Propylene Glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

ErC50 (Skeletonema costatum (marine diatom)): 19,100 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value (Fish): 2,500 mg/l
End point: Other
Exposure time: 30 d

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Method: Other

GLP: no

Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia spec.): 13,020 mg/l
End point: Reproduction rate
Exposure time: 7 d
Test Type: semi-static test
Analytical monitoring: yes
Method: Other
GLP: No information available.
- Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l
End point: Growth rate
Exposure time: 18 h
Test Type: Growth inhibition
Analytical monitoring: no
Method: Other
GLP: no
- Sediment toxicity : LC50: 6983 mg/kg dry weight (d.w.)
Analytical monitoring: yes
Solvent: no
Duration: 10 d
Test Type: static test
Sediment: Natural sediment
Basis for effect: mortality
Method: Other
GLP: yes

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

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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

Propylene Glycol:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 100 mg/l ThOD
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

aerobic
Inoculum: activated sludge
Concentration: 50.3 mg/l
Carbon dioxide (CO₂)
Result: Readily biodegradable.
Biodegradation: 90.6 %
Exposure time: 64 d
Method: OECD Test Guideline 306
GLP: yes

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: no data available

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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

Propylene Glycol:

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

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

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.

Propylene Glycol:

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

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

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GLP: no

Other adverse effects**Product:**

Additional ecological information : The product has not been tested. The information is derived from the properties of the individual components.

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.

Propylene Glycol:

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.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

Waste Code : NONE

Waste from residues : Consult local, state, and federal regulations.

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

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

SECTION 16. OTHER INFORMATION**Further information**

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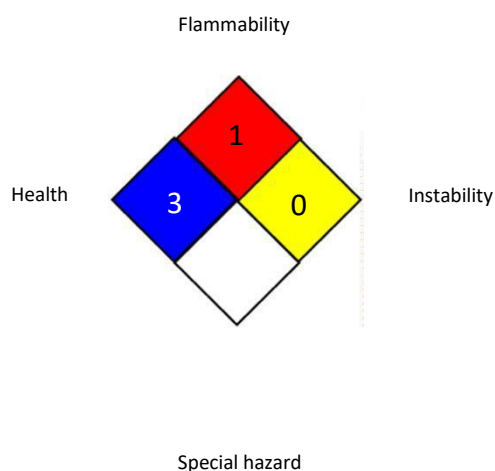
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NFPA 704:



Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA : 8-hr TWA

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

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(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

For additional information, contact Product Stewardship.

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