



MANUDISH LEMON 10X1 L DE/FR/NL/PL

WM 1213962

Order number: 0712951

Version 1.4

Revision Date 28.06.2018

Print Date 12.03.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : MANUDISH LEMON 10X1 L DE/FR/NL/PL
Identification number : 61768, 61773

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

Prevention:

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for



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P337 + P313

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Disposal:
P501

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

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL 5 - < 10 % 2; H319 >= 10,0 % 1; H318	>= 5 - < 10
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts	147170-44-3 931-333-8 01-2119489410-39	Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL > 4 - 10 % 2; H319 > 10 % 1; H318	>= 2 - < 2,5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9 01-2119489418-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 SCL > 12 - 30 % 1; H318 1 - 12 % 2; H319	>= 1 - < 2

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters



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- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

- For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed. Protect from frost.



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7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3: : End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 2750 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 175 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 1650 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 52 mg/m3

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 15 mg/kg

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term local effects
Value: 0,132 mg/cm2

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term local effects
Value: 0,079 mg/cm2

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18- : End Use: Workers
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects



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**unsatd. acyl) derivs.,
hydroxides, inner salts
147170-44-3:**

Value: 44 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Exposure time: 1 d
Value: 12,5 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Chronic effects, Systemic effects
Exposure time: 1 d
Value: 7,5 mg/kg

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Exposure time: 1 d
Value: 7,5 mg/kg

**D-Glucopyranose, oligomeric,
C10-16-alkyl glycosides
110615-47-9:**

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 595000 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 420 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 357000 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 124 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 35,7 mg/kg

PNEC

**Alcohols, C12-14, ethoxylated,
sulfates, sodium salts
68891-38-3:**

: Fresh water
Value: 0,24 mg/l

Marine water
Value: 0,024 mg/l



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STP
Value: 10000 mg/kg

intermittent release
Value: 0,071 mg/l

Fresh water sediment
Value: 5,45 mg/kg

Marine sediment
Value: 0,545 mg/kg

Soil
Value: 0,946 mg/kg

**1-Propanaminium, 3-amino-N-
(carboxymethyl)-N,N-
dimethyl-, N-(C8-18 and C18-
unsatd. acyl) derivs.,
hydroxides, inner salts
147170-44-3:** : Fresh water
Value: 0,0135 mg/l

Marine water
Value: 0,00135 mg/l

Fresh water sediment
Value: 1 mg/kg

Marine sediment
Value: 0,1 mg/kg

STP
Value: 3000 mg/l

Soil
Value: 0,8 mg/kg

**D-Glucopyranose, oligomeric,
C10-16-alkyl glycosides
110615-47-9:** : Fresh water
Value: 0,176 mg/l

Marine water
Value: 0,018 mg/l

Fresh water sediment
Value: 1,516 mg/kg

Marine sediment
Value: 0,065 mg/kg

Soil
Value: 0,654 mg/kg

STP
Value: 5000 mg/l

intermittent release



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Value: 0,0295 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.
Chemical resistant gloves made of butyl rubber or nitrile rubber
category III according to EN 374-1: 2003 (0,4 mm).

Remarks : Take note of the information given by the producer concerning
permeability and break through times, and of special workplace
conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : characteristic

Odour Threshold : No data available

pH : ca. 5,5, at20 °C

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available



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Burning rate : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : ca. 1,02 g/cm³ at 20 °C

Water solubility : completely soluble

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products



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Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Skin corrosion/irritation : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation : No data available

Further information : No data available

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

68891-38-3:

Acute oral toxicity : LD50 Oral Rat: 4.100 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation : Species: Rabbit
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Test Method: Maximisation Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative
Method: OECD Test Guideline 471

Reproductive toxicity : Species: Rat



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Application Route: Oral
NOAEL: > 300 mg/kg,
F1: > 300 mg/kg, Method: OECD Test Guideline 416

Teratogenicity : Species: Rat
Application Route: Oral
>1.000 mg/kg
> 1.000 mg/kg
Method: OECD Test Guideline 414

Repeated dose toxicity : Rat: NOAEL: > 225 mg/kg

Application Route: Oral
Exposure time: 90 Days
Method: OECD Test Guideline 408
Target Organs: Liver

STOT - repeated exposure : Exposure routes: Ingestion
Target Organs: Liver

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts

147170-44-3:

Acute oral toxicity : LD50 Oral Rat: 4.900 mg/kg
Method: OECD Test Guideline 401

LD50 Oral Rat: > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal Rat: > 1.300 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

110615-47-9:

Acute oral toxicity : LD50 Oral : > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal : > 5.000 mg/kg
Method: OECD Test Guideline 402



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SECTION 12: Ecological information

12.1 Toxicity

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

68891-38-3:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7,1 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
GLP: yes
- LC50 (Fish): > 1 - 10 mg/l
Test Type: semi-static test
Method: OECD Test Guideline 203
- LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l
Method: OECD Test Guideline 203
- NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l
Exposure time: 28 d
Test Type: flow-through test
Method: OECD Test Guideline 204
- LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l
Test Type: flow-through test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 7,4 mg/l
Test Type: Immobilization
Method: OECD Test Guideline 202
- EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 0,27 mg/l
Exposure time: 21 d
Test Type: flow-through test
Method: OECD Test Guideline 211
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes
- EC50 (Scenedesmus subspicatus): 10 - 100 mg/l
Method: OECD Test Guideline 201
- EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l
Exposure time: 72 h



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Test Type: static test
Method: OECD Test Guideline 201

NOEC : 0,95 mg/l
Test Type: Growth inhibition
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,93 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 (Pseudomonas putida): > 10 g/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test
Method: DIN 38412
GLP: yes

EC10 (Pseudomonas putida): > 10 g/l
Test Type: Cell multiplication inhibition test
GLP:

Toxicity to fish (Chronic toxicity) : NOEC: 1,2 mg/l

NOEC: 1 - 10 mg/l
Species: Leuciscus idus (Golden orfe)

NOEC: 0,14 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : NOEC: 750 mg/kg
Exposure time: 96 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts
147170-44-3:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Brachydanio rerio): > 1 - 10 mg/l
Method: ISO 7346/2

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202



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- EC50 (*Daphnia magna* (Water flea)): 1 - 10 mg/l
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (*Desmodesmus subspicatus* (green algae)): 11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- EC50 (*Pseudokirchneriella subcapitata* (microalgae)): 1 - 10 mg/l
Method: OECD Test Guideline 201
- Toxicity to bacteria : EC0 (*Pseudomonas putida*): > 100 mg/l
Method: OECD Test Guideline 209
- EC0 (*Pseudomonas putida*): > 6.000 mg/l
Exposure time: 16 h
Method: see user defined free text
- Toxicity to fish (Chronic toxicity) : NOEC: < 1 mg/l
Species: *Oncorhynchus mykiss* (rainbow trout)
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: < 1 mg/l
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 211

**D-Glucopyranose, oligomeric, C10-16-alkyl glycosides
110615-47-9:**

- Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- LC50 (*Brachydanio rerio* (zebrafish)): 2,95 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia* (water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- EC50 (*Daphnia magna* (Water flea)): 7 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 : > 10 - 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- EC50 (*Desmodesmus subspicatus* (green algae)): 12,5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to bacteria : EC0 (*Pseudomonas putida*): > 100 mg/l
Exposure time: 16 h
Method: DIN 38412



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Toxicity to fish (Chronic toxicity) : NOEC: > 1 mg/l
Exposure time: 28 d
Species: Brachydanio rerio
Method: OECD Test Guideline 204

NOEC: 1,8 mg/l
Exposure time: 28 d
Species: Brachydanio rerio
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: see user defined free text

EC10: 1,76 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

12.2 Persistence and degradability

Components:

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts
68891-38-3:**

Biodegradability : Test Type: aerobic
Result: rapidly biodegradable
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301 A

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts
147170-44-3:**

Biochemical Oxygen Demand (BOD) : 365 mg/g
Method: see user defined free text

Chemical Oxygen Demand (COD) : 704 mg/g
Method: DIN 38409-H-41

**D-Glucopyranose, oligomeric, C10-16-alkyl glycosides
110615-47-9:**

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Components:

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts
68891-38-3:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides



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110615-47-9:

Partition coefficient: n-octanol/water : log Pow: < -0,07 (20 °C)

12.4 Mobility in soil

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

68891-38-3:

Distribution among environmental compartments : Adsorption/Soil
Medium:Soil
Koc: 191Method: see user defined free text

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

68891-38-3:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR

Not dangerous goods



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IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not regulated as a dangerous good

IATA

Not dangerous goods

14.6 Special precautions for user

Not applicable

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable



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	: Inorganic substances in vapour or gaseous form: : portionClass 3: 1,17 %
	: Organic Substances: : portionClass 1: < 0,01 %
	: Carcinogenic substances: Not applicable
	: Mutagenic: Not applicable
	: Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	: Percent volatile: 0,25 % 26,33 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Percent volatile: 0,25 % 2,53 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	: 5 - <15% Anionic surfactants, <5% Amphoteric surfactants, Non-ionic surfactants, Perfumes, LACTIC ACID
GISBAU (D)	: GS 30

15.2 Chemical safety assessment

SECTION 16: Other information

Further information

Classification procedure: H319 Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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



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Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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