



Werner & Mertz
Professional

APESIN RAPID 4 X 2 L D

WM 0713181

Order number: 0713181

Version 6.0

Revision Date 21.10.2019

Print Date 03.01.2020

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

1.1 Product identifier

Trade name : APESIN RAPID 4 X 2 L D
Identification number : 61543, 64263

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

Use of the Substance/Mixture : Biocidal product
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

112
+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--|--|
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Skin corrosion, Category 1 | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: P102 Keep out of reach of children.
Prevention:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

didecyltrimethylammonium
chloride
Guanidine, N,N''-1,3-
propanediylbis-, N-coco alkyl
derivs.
N-(3-aminopropyl)-N-
dodecylpropane-1,3-diamine

Safety data sheet available on request.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution of biocides

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|---------------|--|----------------|--------------------------|
| | | | |



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| | | | |
|--|--|--|--------------|
| propan-2-ol | 67-63-0 200-661-7 01-2119457558-25 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | >= 15 - < 20 |
| didecyldimethylammonium chloride | 7173-51-5 230-525-2 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | >= 10 - < 15 |
| Isotridecanol, ethoxylated (10 EO) | 69011-36-5 | Eye Dam. 1; H318 6.1 4; H302 | >= 10 - < 15 |
| Guanidine, N,N'''-1,3-propanediylbis-, N-coco alkyl derivs. | 98246-84-5 308-757-1 | Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Corr. 1C; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 5 - < 10 |
| N-(3-aminopropyl)-N-dodecylpropane- 1,3-diamine | 2372-82-9 219-145-8 01-2119980592-29 | Acute Tox. 3; H301 Skin Corr. 1; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 5 - < 10 |

For explanation of abbreviations see section 16.

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.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.



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- | | | |
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| In case of eye contact | : | Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Protect unharmed eye. Continue rinsing eyes during transport to hospital. |
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|---------------------------|
| Symptoms | : | corrosive effects |
| 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

- | | | |
|---|---|--|
| 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



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Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Neutralise with acid.
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. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Vapours may form explosive mixtures with air.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Storage class (TRGS 510) : 8AL, Combustible liquids, corrosive

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Biocidal product



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

propan-2-ol
67-63-0:

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 888 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 500 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 319 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 26 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 89 mg/m³

Isotridecanol, ethoxylated (10
EO)
69011-36-5:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 294 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 1250 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 25 mg/kg

End Use: Workers
Exposure routes: Skin contact



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**Guanidine, N,N''-1,3-
propanediylbis-, N-coco alkyl
derivs.
98246-84-5:**

Potential health effects: Long-term systemic effects
Value: 2080 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 87 mg/m³

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0,88 mg/m³

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 1 mg/kg

**N-(3-aminopropyl)-N-
dodecylpropane-1,3-diamine
2372-82-9:**

: End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 0,91 mg/kg

End Use: Consumers
Exposure routes: Dermal
Value: 0,54 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0,7 mg/m³

End Use: Consumers
Exposure routes: Oral
Value: 0,2 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 2,35 mg/m³

PNEC

**propan-2-ol
67-63-0:**

: Fresh water
Value: 140,9 mg/l

Marine water
Value: 140,9 mg/l

Fresh water sediment
Value: 552 mg/kg

Marine sediment
Value: 552 mg/kg



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Soil
Value: 28 mg/kg

intermittent release
Value: 140,9 mg/l

STP
Value: 2251 mg/l

Oral
Value: 160 mg/kg

**Isotridecanol, ethoxylated (10 EO)
69011-36-5:** : Fresh water sediment
Value: 0,604 mg/kg

Soil
Value: 0,1 mg/kg

Marine sediment
Value: 0,0604 mg/kg

Fresh water
Value: 0,074 mg/l

intermittent release
Value: 0,015 mg/l

Marine water
Value: 0,0074 mg/l

STP
Value: 1,4 mg/l

**Guanidine, N,N""-1,3-
propanediylbis-, N-coco alkyl
derivs.
98246-84-5:** : Fresh water
Value: 0,0004 mg/l

Marine water
Value: 0,00004 mg/l

Sewage treatment plant
Value: 1 mg/l

Fresh water sediment
Value: 10 mg/kg

Marine sediment
Value: 1 mg/kg

Soil
Value: 3,7 mg/kg

**N-(3-aminopropyl)-N-
dodecylpropane-1,3-diamine** : Fresh water
Value: 0,001 mg/l



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2372-82-9:

Soil
Value: 45,34 mg/kg

Marine sediment
Value: 0,85 mg/kg

Fresh water sediment
Value: 8,5 mg/kg

STP
Value: 1,33 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-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.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid



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|--|---|
| Colour | : light yellow |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| pH | : ca. 10,5, at 20 °C |
| Melting point/range | : No data available |
| Boiling point/boiling range | : No information available. |
| Flash point | : ca. 43,5 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Flammability (liquids) | : Not classified as supporting combustion according to the transport regulations. |
| 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. 0,960 g/cm ³ at 20 °C |
| Water solubility | : 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



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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 : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

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

Acute oral toxicity : Acute toxicity estimate : 1.287 mg/kg
Method: Calculation method

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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



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- STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : Not Rated
- Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

propan-2-ol

67-63-0:

- Acute oral toxicity : LD50 Oral Rat: 5.840 mg/kg
Method: OECD Test Guideline 401
- LD50 Oral Rat: 4.570 mg/kg
- Acute inhalation toxicity : LC50 Rat, female: 47,5 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 403
- LC50 Rat: 72,6 mg/l
Exposure time: 4 h
- LC50 Mouse: 27,2 mg/l
Exposure time: 4 h
- LC50 Rat: 25 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403
- LC50 Rat: 30 mg/l
Exposure time: 4 h
- LC50 Rat: 10000 ppm
Exposure time: 6 h
- Acute dermal toxicity : LD50 Rabbit: 12.800 mg/kg
Method: OECD Test Guideline 402
- LD50 Dermal Rabbit: 12.870 mg/kg
Method: OECD Test Guideline 402
- LD50 Dermal Rabbit: 13.900 mg/kg
Method: OECD Test Guideline 402



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| | |
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| | LD50 Dermal Rabbit: 13.400 mg/kg |
| Skin corrosion/irritation | : Species: Rabbit Result: No skin irritation |
| Serious eye damage/eye irritation | : Species: Rabbit Result: irritating |
| Respiratory or skin sensitisation | : Test Method: Buehler Test Species: Guinea pig Result: Does not cause skin sensitisation. |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : Type: Ames test Test species: Salmonella typhimurium with and without metabolic activation Result: negative |

didecyldimethylammonium chloride

7173-51-5:

| | |
|-----------------------------------|---|
| Acute oral toxicity | : LD50 Rat: 238 mg/kg Method: OECD Test Guideline 401 |
| | Acute toxicity estimate : 500,0 mg/kg Method: Converted acute toxicity point estimate |
| Acute dermal toxicity | : LD50 Rabbit: 3.342 mg/kg |
| Skin corrosion/irritation | : Species: Rabbit Exposure time: 3 min Result: irritating Method: OECD Test Guideline 404 |
| Respiratory or skin sensitisation | : Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: Buehler Test |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : Type: Ames test Result: negative Method: OECD Test Guideline 471 |
| | : Type: Chromosome aberration test in vitro Result: negative |
| Genotoxicity in vivo | : Type: in vivo assay |



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Test species: Rat Application Route: Oral
Method: see user defined free text

Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs. 98246-84-5:

Repeated dose toxicity : Rat, male and female: NOAEL: 30 mg/kg
Application Route: Oral
Exposure time: 28 d
Method: OECD Test Guideline 407

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9:

Acute oral toxicity : LD50 Rat, female: 243,6 mg/kg
Method: OECD Test Guideline 401
GLP: yes
LD50 Rat, male: 280 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Acute dermal toxicity : LD50 Rat: > 600 mg/kg
Method: OECD Test Guideline 402
Skin corrosion/irritation : Species: Rabbit
Exposure time: 3 min
Result: Causes severe burns.
Method: OECD Test Guideline 404
Respiratory or skin sensitisation : Test Method: Buehler Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Germ cell mutagenicity
Genotoxicity in vitro : Test species: Chinese hamster cells
Metabolic activation
Result: negative
Method: OECD Test Guideline 476
: Type: Chromosome aberration test in vitro
Test species: Chinese hamster cells
Metabolic activation
Result: negative
Method: OECD Test Guideline 473



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| | |
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| | : Type: Ames test Test species: Salmonella typhimurium Metabolic activation Result: negative Method: OECD Test Guideline 471 |
| Repeated dose toxicity | : Rat: NOAEL: 9 mg/kg Application Route: Oral Exposure time: 90 d Method: OECD Test Guideline 408 GLP: yes Dog: NOAEL: 20 mg/kg Application Route: Dermal Exposure time: 90 d Method: OECD Test Guideline 409 GLP: yes Rat: NOAEL: 15 mg/kg Application Route: Dermal Exposure time: 90 d GLP: yes |

SECTION 12: Ecological information

12.1 Toxicity

Components:

propan-2-ol

67-63-0:

| | |
|---|---|
| Toxicity to fish | : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 h LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Test Type: static test GLP: no |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 13.299 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 9.714 mg/l Exposure time: 24 h EC50 (Daphnia magna (Water flea)): > 100 mg/l |



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| | Exposure time: 48 h Test Type: static test GLP: no (Daphnia (water flea)): > 10.000 mg/l Method: OECD Test Guideline 202 NOEC (Daphnia magna (Water flea)): 30 mg/l Exposure time: 21 d EC50 (Daphnia magna (Water flea)): 10.000 mg/l Exposure time: 48 h |
| Toxicity to algae | : IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l Exposure time: 72 h Test Type: Growth inhibition EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l Exposure time: 72 h Test Type: static test GLP: no ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h EC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h Test Type: static test |
| Toxicity to bacteria | : EC50 (Aliivibrio fischeri): 17.700 mg/l Exposure time: 5 min GLP: EC10 (Pseudomonas putida): 5.175 mg/l Exposure time: 18 h Method: DIN 38412 GLP: |
| didecyldimethylammonium chloride 7173-51-5: | |
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,0 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l Exposure time: 96 h Method: see user defined free text NOEC (Danio rerio (zebra fish)): 0,032 mg/l Exposure time: 34 d Method: see user defined free text LC50 (Danio rerio (zebra fish)): 0,97 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |



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| | LC50 (Danio rerio (zebra fish)): 0,49 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0,062 mg/l Exposure time: 48 h Test Type: Immobilization Method: see user defined free text NOEC (Daphnia magna (Water flea)): 0,01 mg/l Exposure time: 21 d Test Type: Reproduction Test Method: OECD Test Guideline 211 EC50 (Daphnia magna (Water flea)): 0,057 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Daphnia (water flea)): 0,03 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Daphnia (water flea)): 0,021 mg/l Exposure time: 48 h Method: OECD Test Guideline 211 |
| Toxicity to algae | : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l Exposure time: 96 h Test Type: Growth inhibition Method: OECD Test Guideline 201 EC50 (Pseudokirchneriella subcapitata (green algae)): 0,053 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 0,013 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (Selenastrum capricornutum (green algae)): 0,06 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| M-Factor (Short-term (acute) aquatic hazard) | : 10 |
| Toxicity to bacteria | : EC50 : 11 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: see user defined free text EC50 : 17,9 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |

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| | EC20 : 8,9 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |
| Toxicity to soil dwelling organisms | : NOEC: > 1.000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: see user defined free text |
| Plant toxicity | : EC50: 283 - 1.670 mg/kg Exposure time: 14 d Method: see user defined free text |

Guanidine, N,N"-1,3-propanediylbis-, N-coco alkyl derivs. 98246-84-5:

| | |
|--|---|
| Toxicity to fish | : LC50 (Danio rerio (zebra fish)): 0,707 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 NOEC (Danio rerio (zebra fish)): 0,125 mg/l Exposure time: 9 d Method: OECD Test Guideline 212 |
| Toxicity to daphnia and other aquatic invertebrates | : (Daphnia magna (Water flea)): 0,058 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : (Desmodesmus subspicatus (green algae)): 0,0197 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 (Desmodesmus subspicatus (green algae)): 0,00316 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 |
| M-Factor (Short-term (acute) aquatic hazard) | : 10 |
| Toxicity to bacteria | : EC50 (activated sludge): 28,4 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 NOEC (activated sludge): 10 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : 0,025 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Reproduction Test |



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Method: OECD Test Guideline 211

M-Factor (Long-term (chronic)
aquatic hazard) : 1

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2372-82-9:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,44 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,68 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,45 mg/l
Exposure time: 96 h
Analytical monitoring: yes
GLP: yes

Toxicity to daphnia and other
aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 0,3 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 0,073 mg/l
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes
GLP: yes

NOEC (Daphnia magna (Water flea)): 0,024 mg/l
Exposure time: 21 d
Test Type: Reproduction Test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,054 mg/l
Exposure time: 96 h
Test Type: Growth inhibition
GLP: yes

ErC10 (Desmodesmus subspicatus (green algae)): 0,012 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

(Desmodesmus subspicatus (green algae)): 0,0069 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201



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| | |
|---|--|
| M-Factor (Short-term (acute) aquatic hazard) | : 10 |
| Toxicity to bacteria | : EC50 (Bacteria): 0,8 mg/l Method: DIN 38412 GLP: EC50 (activated sludge): 18 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes |
| M-Factor (Long-term (chronic) aquatic hazard) | : 1 |

12.2 Persistence and degradability

Components:

propan-2-ol 67-63-0:

| | |
|------------------|--|
| Biodegradability | : Result: rapidly biodegradable Biodegradation: 95 % Exposure time: 21 d Method: OECD 301 E Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 53 % Exposure time: 5 d Result: rapidly biodegradable Biodegradation: > 70 % Exposure time: 10 d GLP: no Biodegradation: 99,9 % Method: see user defined free text |
|------------------|--|

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

didecyldimethylammonium chloride

7173-51-5:

| | |
|------------------|---|
| Biodegradability | : Biodegradation: 72 % Exposure time: 28 d Method: see user defined free text Remarks: Readily biodegradable, according to appropriate OECD test. Result: rapidly biodegradable Biodegradation: > 60 % |
|------------------|---|



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Method: OECD 301 D

**Guanidine, N,N'''-1,3-propanediylbis-, N-coco alkyl derivs.
98246-84-5:**

Biodegradability : Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 303A

Biodegradation: 64 %
Exposure time: 28 d
Method: OECD 301 B

Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine
2372-82-9:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301

Test Type: Zahn-Wellens Test
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Test Type: see user defined free text
Result: rapidly biodegradable
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301 D
GLP: yes

Biodegradation: 96 %
Exposure time: 12 - 15 d
Method: OECD Test Guideline 303A

Chemical Oxygen Demand (COD) : 2.875 mg/g
Remarks: see user defined free text

Dissolved organic carbon (DOC) : 721 mg/g
Remarks: see user defined free text

12.3 Bioaccumulative potential

Components:

**propan-2-ol
67-63-0:**

Biaccumulation : Bioconcentration factor (BCF): 3

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Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2372-82-9:

Partition coefficient: n-octanol/water : log Pow: 4,46
Remarks: see user defined free text

12.4 Mobility in soil

Components:

propan-2-ol

67-63-0:

Distribution among environmental compartments : Koc: 25Remarks: Highly mobile in soils

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2372-82-9:

Mobility : Remarks: After release, adsorbs onto soil.

12.5 Results of PBT and vPvB assessment

Components:

propan-2-ol

67-63-0:

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)..

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2372-82-9:

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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., Very toxic to aquatic organisms.

Components:

LAURYLAMINE DIPROPYLENEDIAMINE:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.
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 : 1903
IMDG : 1903
IATA : 1903

14.2 Proper shipping name

- ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride, Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs.)
- IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride, Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs. (EINECS))
- IATA : Disinfectant, liquid, corrosive, n.o.s. Not permitted for transport

14.3 Transport hazard class

- ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

- ADR
Classification Code : C9
Packaging group : II
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)
- IMDG
Packaging group : II
Labels : 8
EmS Number : F-A, S-B
- IATA
(Cargo) : Disinfectant, liquid, corrosive, n.o.s. Not permitted for transport
Packaging group : II
Labels : 8



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14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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 : DIDECYLDIMONIUM CHLORIDE

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| | | Quantity 1 | Quantity 2 |
|-----|-----------------------|--------------|---------------|
| E1 | ENVIRONMENTAL HAZARDS | 100 000067 | 200 000067 |
| P5c | FLAMMABLE LIQUIDS | 5.000 000067 | 50.000 000067 |

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic Substances: : portionClass 1: 9,05 %
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 17,01 %
273,57 g/l
VOC content excluding water



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Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 17,01 %
163,34 g/l
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : 5 - <15% Cationic surfactants, Non-ionic surfactants, <5% Phosphonates, Disinfectants, Perfumes, DIDECYLDIMONIUM CHLORIDE, LAURYLAMINE DIPROPYLENEDIAMINE, LIMONENE, LINALOOL, alpha-ISOMETHYL IONONE, GERANIOL, BUTYLPHENYL METHYLPROPIONAL

GISBAU (D) : GD 40

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

| | | |
|---------------------------|------|--------------------|
| Classification procedure: | H302 | Calculation method |
| | H314 | Calculation method |
| | H318 | Calculation method |
| | H400 | Calculation method |
| | H411 | 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

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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 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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