



## **APESIN COMBI DR**

**WM 0715235**

**Order number: 0715235**

Version 2.8

Revision Date 25.01.2023

Print Date 05.02.2023

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

#### **1.1 Product identifier**

Trade name : APESIN COMBI DR  
UFI : NTC5-R0ST-Y00G-APN5

#### **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  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
+49(0)6131-19240

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

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

: 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:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
**Disposal:**  
P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:

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

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8 01-2119980592-29	Acute Tox. 3; H301 Skin Corr. 1A; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic	>= 5 - < 10



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Isotridecanol, ethoxylated	69011-36-5 500-241-6	aquatic toxicity): 1 Acute Tox. 4; H302 Eye Dam. 1; H318 <hr/> specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - 10 %	>= 3 - < 5
l-(+)-lactic acid	79-33-4 201-196-2 01-2119474164-39	Skin Corr. 1C; H314 Eye Dam. 1; H318 <hr/> specific concentration limit Skin Irrit. 2; H315 3 - < 5 % Eye Dam. 1; H318 >= 3 % Eye Irrit. 2; H319 1 - < 3 % Skin Corr. 1C; H314 >= 5 %	>= 2 - < 3
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 <hr/> specific concentration limit Eye Irrit. 2; H319 5 - < 10 % Eye Dam. 1; H318 >= 10,0 %	>= 1 - < 2

### 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.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.



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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.  
If symptoms persist, call a physician.  
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.

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## 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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



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respective authorities.

### 6.3 Methods and material 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.

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

Further information on storage stability : 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.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection



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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

### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

Appearance	:	liquid
Colour	:	colourless, clear
Odour	:	amine-like
Odour Threshold	:	No data available
pH	:	ca. 9,8, 100 % at 20 °C
Melting point/range	:	No data available
Boiling point/boiling range	:	No information available.
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
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. 1,023 g/cm <sup>3</sup> at 20 °C
Water solubility	:	soluble
Solubility in other solvents	:	No data available



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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 : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method



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### Components:

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

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

- 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

#### **Isotridecanol, ethoxylated**

##### **69011-36-5:**

- Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

#### **I-(+)-lactic acid**

##### **LACTIC ACID:**

- Acute oral toxicity : LD50 (Rat): 3.730 mg/kg
- LD50 (Mouse): 4.875 mg/kg
- LD50 Oral (Guinea pig): 1.810 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 7,94 mg/l  
Exposure time: 4 h
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

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

##### **68891-38-3:**

- Acute oral toxicity : LD50 Oral (Rat): 2.870 mg/kg  
Method: OECD Test Guideline 401
- LD50 (Rat): 7.400 mg/kg  
Method: OECD Test Guideline 401
- LD50 (Rat): 2.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401
- LD50 (Rat): > 2.000 mg/kg
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **Skin corrosion/irritation**

##### **Product:**

- Remarks : Extremely corrosive and destructive to tissue.





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### Components:

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

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

Species : Rabbit  
Exposure time : 3 min  
Method : OECD Test Guideline 404  
Result : Causes severe burns.

#### **Isotridecanol, ethoxylated**

##### **69011-36-5:**

Result : No skin irritation

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

##### **68891-38-3:**

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404

#### **Serious eye damage/eye irritation**

##### **Product:**

Remarks : May cause irreversible eye damage.

### Components:

#### **Isotridecanol, ethoxylated**

##### **69011-36-5:**

Result : Eye irritation

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

##### **68891-38-3:**

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405

#### **Respiratory or skin sensitisation**

##### **Product:**

Remarks : No data available

### Components:

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

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.



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### Isotridecanol, ethoxylated

#### 69011-36-5:

Result : Not a skin sensitizer.

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

#### 68891-38-3:

Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

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

#### LAURYLAMINE DIPROPYLENEDIAMINE:

Genotoxicity in vitro : Test system: Chinese hamster cells  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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

#### 68891-38-3:

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

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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

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



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### Repeated dose toxicity

#### Components:

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

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

Species : Rat  
NOAEL : 9 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
GLP : yes

Species : Dog  
NOAEL : 20 mg/kg  
Application Route : Dermal  
Exposure time : 90 d  
Method : OECD Test Guideline 409  
GLP : yes

Species : Rat  
NOAEL : 15 mg/kg  
Application Route : Dermal  
Exposure time : 90 d  
GLP : yes

#### **Isotridecanol, ethoxylated**

##### **69011-36-5:**

Species : Rat  
NOAEL : 50 mg/kg  
Application Route : Oral

Aspiration toxicity : Not Rated

### 11.2 Information on other hazards

#### **Further information**

##### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

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



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- 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/aquatic plants : 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
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (Bacteria): 0,8 mg/l  
Method: DIN 38412
- EC50 (activated sludge): 18 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes



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M-Factor (Chronic aquatic toxicity) : 1

### 69011-36-5:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1 - 10 mg/l  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 140 mg/l  
Test Type: Respiration inhibition

Toxicity to soil dwelling organisms : NOEC: 220 mg/kg  
Species: Eisenia fetida (earthworms)

Plant toxicity : NOEC: 10 mg/kg  
Species: Lepidium sativum (cress)  
Method: OECD Test Guideline 208

### LACTIC ACID:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 130 mg/l  
Exposure time: 96 h

LC50 (Fish): 320 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 130 mg/l  
Exposure time: 48 h

EC50 (Daphnia pulex (Water flea)): 240 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum): 3.500 mg/l

ErC50 (Pseudokirchneriella subcapitata (microalgae)): 2.800 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 : > 100 mg/l  
Exposure time: 3 h



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### 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
- LC50 (Brachydanio rerio (zebrafish)): 7,1 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 7,4 mg/l  
Exposure time: 48 h  
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
- (Daphnia magna (Water flea)): 7,2 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : 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



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- EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
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 microorganisms : 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
- Toxicity to fish (Chronic toxicity) : 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

### 12.2 Persistence and degradability

#### Components:

#### **LAURYLAMINE DIPROPYLENEDIAMINE:**

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



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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

### 69011-36-5:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Result: Biodegradable  
Biodegradation: > 60 %  
Exposure time: 60 d  
Method: OECD Test Guideline 311

### LACTIC ACID:

Biodegradability : Result: rapidly biodegradable

Biochemical Oxygen Demand (BOD) : 450 mg/g  
Incubation time: 5 d

600 mg/g  
Incubation time: 20 d

Chemical Oxygen Demand (COD) : 900 mg/g

ThOD : 1.067 mg/g

### 68891-38-3:

Biodegradability : Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: > 70 %





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Exposure time: 28 d  
Method: OECD 301 A

Test Type: anaerobic  
Result: Biodegradable  
Biodegradation: > 60 %  
Exposure time: 41 d

### 12.3 Bioaccumulative potential

#### Components:

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

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

##### **68891-38-3:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

#### Components:

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

Mobility : Remarks: After release, adsorbs onto soil.

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **LAURYLAMINE DIPROPYLENEDIAMINE:**

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).

##### **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 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

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



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### 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.

---

### **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.  
In accordance with local and national regulations.

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 : 1760  
IMDG : 1760  
IATA : 1760

#### **14.2 Proper shipping name**

ADR : CORROSIVE LIQUID, N.O.S.  
(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)

IMDG : CORROSIVE LIQUID, N.O.S.  
(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)

IATA : Corrosive liquid, n.o.s.

#### **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) : Corrosive liquid, n.o.s.  
Packaging group : II



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Labels : 8

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA

Environmentally hazardous : yes

### 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 : Not applicable

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

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: 6,68 %  
: 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: 0,07 %  
4,65 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 0,07 %  
0,68 g/l



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VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : <5% Anionic surfactants, Non-ionic surfactants, LAURYLAMINE DIPROPYLENEDIAMINE

### 15.2 Chemical safety assessment

#### SECTION 16: Other information

##### Full text of H-Statements

H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
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.  
H412 : Harmful to aquatic life with long lasting effects.

##### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure

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; AIIC - Australian Inventory of Industrial Chemicals; 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 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;



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SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Corr. 1	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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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