



## **APESIN COMBI DR 2 X 5 L D**

**WM 0713199**

**Order number: 0713199**

Version 10.7

Revision Date 01.02.2023

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 2 X 5 L D  
UFI :

#### **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)**

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)**



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
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

Chemical nature : Aqueous solution of biocides

#### 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 <hr/> M-Factor (Acute aquatic	>= 5 - < 10



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

		toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, branched	69011-36-5 500-241-6	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	$\geq 2,5 - < 5$
sodium etasulfate	126-92-1 204-812-8 01-2119971586-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 <hr/> specific concentration limit Eye Irrit. 2; H319 10 - < 20 % Eye Dam. 1; H318 $\geq 20$ %	$\geq 2 - < 3$
citric acid	77-92-9 201-069-1 01-2119457026-42	STOT SE 3; H335 Eye Irrit. 2; H319	$\geq 1 - < 2$

### 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.  
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.



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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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 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.



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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.

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

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.



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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
Odour	: amine-like
Odour Threshold	: No data available
pH	: ca. 9,7, 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. 1,029 g/cm <sup>3</sup> 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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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: 1.466 mg/kg  
Method: Calculation method

##### 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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

### Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, branched

#### 69011-36-5:

Acute oral toxicity : LD50 Oral (Rat): > 500 mg/kg  
LD50 Oral (Rat): < 2.000 mg/kg  
LD50 Oral (Rat): > 500 - 2.000 mg/kg  
Method: OECD Test Guideline 423

### sodium etasulfate

#### SODIUM ETHYLHEXYL SULFATE:

Acute oral toxicity : LD50 Oral (Rat, male and female): 2.840 mg/kg  
Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg

### citric acid

#### CITRIC ACID:

Acute oral toxicity : LD50 Oral (Mouse): 5.400 mg/kg  
Method: OECD Test Guideline 401  
LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

#### 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.

### Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, branched

#### 69011-36-5:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

### sodium etasulfate

#### SODIUM ETHYLHEXYL SULFATE:

Species : Rabbit  
Result : Skin irritation





## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

### Serious eye damage/eye irritation

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy-, branched**

**69011-36-5:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : irritating

**sodium etasulfate**

**SODIUM ETHYLHEXYL SULFATE:**

Species : Rabbit  
Result : Eye irritation

**citric acid**

**CITRIC ACID:**

Result : Eye irritation

### 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.

**citric acid**

**CITRIC ACID:**

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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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

- 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.

### 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

#### **citric acid**

##### **CITRIC ACID:**

Species : Rat  
NOAEL : 4.000 mg/kg  
LOAEL : 8.000 mg/kg  
Application Route : Oral  
Exposure time : 10 d



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

Aspiration toxicity : Not Rated

### 11.2 Information on other hazards

#### Further information

#### Product:

Remarks : No data available

## 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  
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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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

M-Factor (Chronic aquatic toxicity) : 1

### 69011-36-5:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 1 - 10 mg/l  
Exposure time: 96 h  
Method: DIN 38412

LC50 (Brachydanio rerio (zebrafish)): 12 mg/l  
Exposure time: 96 h  
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

EC50 (Daphnia magna (Water flea)): 4,7 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 2,5 mg/l

Toxicity to algae/aquatic plants : EC50 (Scenedesmus subspicatus): > 1 - < 10 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

EC10 : > 1 mg/l  
Exposure time: 72 h



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): > 2.500 mg/l  
Exposure time: 17 h  
Method: DIN 38 412 Part 8

Toxicity to fish (Chronic toxicity) : NOEC: > 1 mg/l  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 mg/l

### SODIUM ETHYLHEXYL SULFATE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: >= 1.357 mg/l  
Exposure time: 42 d  
Species: Pimephales promelas (fathead minnow)

### CITRIC ACID:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h  
Test Type: static test

EC50 (Daphnia magna (Water flea)): ca. 120 mg/l  
Exposure time: 72 h

Toxicity to algae/aquatic plants : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l  
Exposure time: 8 Days  
Test Type: static test

Toxicity to microorganisms : (Pseudomonas putida): > 10.000 mg/l  
Exposure time: 16 h



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

### 12.2 Persistence and degradability

#### Components:

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

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

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

Biodegradability : Biodegradation: > 90 %  
Method: OECD 301 E

Result: rapidly biodegradable  
Biodegradation: > 60 %  
Method: OECD 301 B

Result: rapidly biodegradable  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: OECD 301 D

Chemical Oxygen Demand (COD) : 2.438 mg/g

##### **SODIUM ETHYLHEXYL SULFATE:**

Biodegradability : Biodegradation: > 60 %  
Exposure time: 14 d  
Method: OECD 301 D  
Remarks: The surfactant(s) contained in this mixture



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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.

Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD 301 B

Biochemical Oxygen Demand (BOD) : 342 mg/g  
Incubation time: 5 d  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 578 mg/g  
Method: DIN 38409-H-41

### **CITRIC ACID:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD 301 B

Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 19 d  
Method: OECD 301 E

Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

ThOD : 0,75 g/g

### **12.3 Bioaccumulative potential**

#### **Components:**

#### **LAURYLAMINE DIPROPYLENEDIAMINE:**

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

#### **CITRIC ACID:**

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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

### 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).

##### CITRIC ACID:

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

### 12.6 Endocrine disrupting properties

No data available

### 12.7 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.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.





## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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  
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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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: 8,66 %  
: 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: Not applicable

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

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

H301 : Toxic if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
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



## APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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

Acute Tox. 4	H302
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
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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**APESIN COMBI DR 2 X 5 L D**

**WM 0713199**

**Order number: 0713199**

Version 10.7

Revision Date 01.02.2023

Print Date 05.02.2023

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