



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 8.1

Revision Date 31.08.2017

Print Date 06.12.2017

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
Identification number : 61391

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

+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.
Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





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Signal word	:	Danger	
Hazard statements	:	H302 H314 H400	Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.
Precautionary statements	:	P102 Prevention: P280 Response: P303 + P361 + P353 P305 + P351 + P338 + P310 P337 + P313 Disposal: P501	Keep out of reach of children. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. If eye irritation persists: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution of biocides

Hazardous components

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



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N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8	Acute Tox. 3; H301 Skin Corr. 1; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 10
Tridecanol, branched, ethoxylated	69011-36-5	Eye Irrit. 2; H319 Aquatic Acute 3; H412	>= 2,5 - < 5
sodium etasulfate	126-92-1 204-812-8 01-2119971586-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 SCL 10 - < 20 % 2; H319 >= 20 % 1; H318	>= 2 - < 3
citric acid	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>= 1 - < 2

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.
- 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.



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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

- 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.



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6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. 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.

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

7.3 Specific end use(s)

Specific use(s) : Biocidal product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

sodium etasulfate : End Use: Workers
126-92-1: Exposure routes: Inhalation



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Potential health effects: Chronic effects, Systemic effects
Value: 285 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Exposure time: 1 d

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Chronic effects, Systemic effects
Exposure time: 1 d

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 85 mg/m³

PNEC

**sodium etasulfate
126-92-1:**

: Fresh water
Value: 0,1357 mg/l

Marine water
Value: 0,0136 mg/l

Fresh water sediment
Value: 1,5 mg/kg

Marine sediment
Value: 0,15 mg/kg

STP
Value: 1,35 mg/l

Soil
Value: 0,22 mg/kg

**citric acid
77-92-9:**

: Fresh water
Value: 0,44 mg/l

Marine water
Value: 0,044 mg/l

STP
Value: > 1000 mg/l

Fresh water sediment
Value: 34,6 mg/kg

Marine sediment
Value: 3,46 mg/kg

Soil



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Value: 33,1 mg/kg

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 (0,4 mm).

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

Skin and body protection : 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

Colour : colourless

Odour : amine-like

Odour Threshold : No data available

pH : ca. 9,7

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : Not applicable

Evaporation rate : No data available



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Flammability (solid, gas)	: 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. 1,031 g/cm ³
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
Flow time	: 32 s Cross section: 3 mm
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



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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 : 1.466 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

Further information : No data available

Components:

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

Acute dermal toxicity : LD50 Rat: > 600 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation : Species: Rabbit
Exposure time: 3 min
Result: Corrosive
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 : Type: Ames test
Result: negative
Method: Directive 67/548/EEC, Annex V, B.13.

: Test species: Chinese hamster cells



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Result: negative
Method: OECD Test Guideline 476

: Test species: Chinese hamster cells
Result: negative
Method: OECD Test Guideline 473

Repeated dose toxicity

: Rat: NOAEL: 9 mg/kg

Application Route: Oral
Exposure time: 90 d

Dog: NOAEL: 20 mg/kg

Application Route: Dermal
Exposure time: 90 d

Rat: NOAEL: 15 mg/kg

Application Route: Dermal
Exposure time: 90 d

Tridecanol, branched, ethoxylated 69011-36-5:

Acute oral toxicity : LD50 Oral Rat: > 500 mg/kg

LD50 Oral Rat: < 2.000 mg/kg

Acute inhalation toxicity

: Rat: Exposure time: 7 h
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Skin corrosion/irritation

: Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye
irritation

: Result: Causes serious eye damage.

sodium etasulfate 126-92-1:

Acute oral toxicity : LD50 Oral Rat: 4.000 mg/kg

LD50 Oral Rat: > 2.000 mg/kg

Acute dermal toxicity

: LD50 Dermal Rat: > 2.000 mg/kg



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citric acid

77-92-9:

Acute oral toxicity

: LD50 Oral Mouse: 5.400 mg/kg
Method: OECD Test Guideline 401

LD50 Oral Rat: 11.700 mg/kg
Method: OECD Test Guideline 401

LD50 Oral Mouse: 5.000 mg/kg

LD50 Oral : 3.000 mg/kg

Acute dermal toxicity

: LD50 Dermal Rat: > 2.000 mg/kg

Acute toxicity (other routes of administration)

: see user defined free text Rat: 725 mg/kg
Application Route: see user defined free text

see user defined free text Mouse: 940 mg/kg
Application Route: see user defined free text

Skin corrosion/irritation

: Result: Mild skin irritation

Serious eye damage/eye irritation

: Result: Eye irritation

Respiratory or skin sensitisation

: Result: Does not cause skin sensitisation.

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

Repeated dose toxicity

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

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



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- LC50 (Oncorhynchus mykiss (rainbow trout)): 0,68 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,45 mg/l
Exposure time: 96 h
- 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
- (Daphnia magna (Water flea)): 0,024 mg/l
Exposure time: 21 d
Test Type: Reproduction Test
Method: OECD Test Guideline 211
- Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 0,039 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to bacteria : 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
- M-Factor (Chronic aquatic toxicity) : 1
- Tridecanol, branched, ethoxylated
69011-36-5:**
- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 1 - 10 mg/l
Exposure time: 96 h
Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - < 10 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 : > 1 - < 10 mg/l
Exposure time: 72 h
- EC10 : > 1 mg/l
Exposure time: 72 h
- Toxicity to bacteria : EC10 (activated sludge): > 10.000 mg/l
Exposure time: 17 h



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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 etasulfate **126-92-1:**

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

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

citric acid **77-92-9:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l
Exposure time: 96 h
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

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

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

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

12.2 Persistence and degradability

Components:

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 %



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Exposure time: 28 d
Method: OECD Test Guideline 302B

Test Type: see user defined free text
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301 D

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

Tridecanol, branched, ethoxylated 69011-36-5:

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

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

Chemical Oxygen Demand (COD) : 2.438 mg/g

sodium etasulfate 126-92-1:

Biodegradability : Biodegradation: > 60 %
Exposure time: 14 d
Method: OECD 301 D
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.

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 77-92-9:

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

Result: Readily biodegradable
Biodegradation: 100 %



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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:

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

citric acid

77-92-9:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -1,72

12.4 Mobility in soil

Components:

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

Product:

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

Components:

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)..

citric acid

77-92-9:

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)..



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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.

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.
- Waste Code : European Waste Catalogue
07 06 99
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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

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



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Labels : 8
Tunnel restriction code : (E)
IMDG
Packaging group : II
Labels : 8
EmS Number : F-A, S-B
IATA
Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
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

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

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: Not applicable
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Percent volatile: 3 %
215,57 g/l
VOC content excluding water

Volatile organic compounds (VOC) content : Percent volatile: 3 %
30,93 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

Diğer kurallar : 26 Aralık 2008 tarihli,27092 mükerrer sayılı," T.C. Çevre ve Orman Bakanlığı Tehlikeli Maddeler ve Müstahzarlara İlişkin Güvenlik Bilgi Formlarının Hazırlanması ve Dağıtılması Hakkında Yönetmeliği " ne uygun düzenlenmiştir.
26 Aralık 2008 27092 (mükerrer) sayılı Tehlikeli Maddelerin ve Müstahzarların Sınıflandırılması Ambalajlanması ve Etiketlenmesi Hakkında Yönetmelik hükümlerine göre hazırlanmıştır.

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.
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.

Further information

Classification procedure:	H302	Calculation method
	H314	Calculation method
	H318	Calculation method
	H400	Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50



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% 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; 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

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