



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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 : Disinfectants

1.3 Details of the supplier of the safety data sheet

Company : Erdal-Rex GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196402
Telefax : +4961319642413
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 1A H314: Causes severe skin burns and 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 :



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
Keep out of reach of children.



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

Disposal:

P501

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

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 (REGULATION (EC) No 1272/2008) | Concentration (%) |
|--|---|--|-------------------|
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 2372-82-9 219-145-8 | Acute Tox.3; H301 Skin Corr.1; H314 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410 | >= 5 - < 10 |
| Tridecanol, branched, ethoxylated | 69011-36-5 | Eye Dam.1; H318 Acute Tox.4; H302 | >= 2 - < 5 |
| sodium etasulfate | 126-92-1 204-812-8 01-2119971586-23 | Skin Irrit.2; H315 Eye Dam.1; H318 | >= 2 - < 5 |
| citric acid | 77-92-9 201-069-1 01-2119457026-42 | Eye Irrit.2; H319 | >= 1 - < 2 |

For explanation of abbreviations see section 16.



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

| | |
|----------|-----------------------------|
| Symptoms | : corrosive effects |
| Risks | : No information available. |

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

| | |
|--------------------------------------|---|
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
|--------------------------------------|---|

| | |
|-------------------------------|---|
| Hazardous combustion products | : |
|-------------------------------|---|

5.3 Advice for firefighters

| | |
|----------------------------------|--|
| Special protective equipment for | : In the event of fire, wear self-contained breathing apparatus. |
|----------------------------------|--|



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

firefighters

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.

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

: 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. 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

: 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.



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

7.3 Specific end use(s)

Specific use(s) : Disinfectants

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

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

: End Use: Workers
Exposure routes: Inhalation
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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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
Value: 33,1 mg/kg

8.2 Exposure controls

Personal protective equipment

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

Hand protection

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

Glove thickness : 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
Ensure adequate ventilation, especially in confined areas.

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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

| | | |
|--|---|-----------------------------|
| 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 |
| 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.



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : Acute toxicity estimate : 1.347 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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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
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:



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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

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.

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

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,68 mg/l
Exposure time: 96 h



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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
Method: DIN 38 412 Part 8

Toxicity to fish (Chronic toxicity)

: NOEC: > 1 mg/l
Species: Fish



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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 %
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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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 %
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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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)..

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.



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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
070699
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
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



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

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
: Directive 1999/13/EC
Volatile organic compounds : Volatile organic compounds (VOC) content: 3 %, 215,57 g/l

Directive 1999/13/EC
Volatile organic compounds (VOC) content: 3 %, 30,93 g/l

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. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |



APESIN COMBI DR 2 X 5 L D

WM 0713199

Order number: 0713199

Version 5.12

Revision Date 17.08.2016

Print Date 19.09.2016

| | |
|------|--|
| 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. |

Further information

| | | |
|---------------------------|------|--------------------|
| Classification procedure: | H302 | Calculation method |
| | H314 | Calculation method |
| | H400 | 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.

500000000854