



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

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

1.1 Product identifier

Trade name : APESIN SAN
UFI : Q3P2-80TS-A00Y-DUG8

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)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Hazard statements	:	H290 H314	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements	:	P102 Prevention: P280 Response: P303 + P361 + P353 P304 + P340 P305 + P351 + P338 P310 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 INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:
methanesulphonic acid

Safety data sheet available on request.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
methanesulphonic acid	75-75-2 200-898-6 607-145-00-4 01-2119491166-34	Skin Corr. 1B; H314 Met. Corr. 1; H290 Acute Tox. 4; H302 Acute Tox. 4; H312 STOT SE 3; H335 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1B; H314 5 - 100 % Eye Dam. 1; H318 3 - < 5 % Skin Irrit. 2; H315 3 - < 5 % Eye Irrit. 2; H319 1 - < 3 % Skin Irrit. 2; H315 1 - < 3 %	>= 5 - < 10



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6 270-407-8931-534-0 01-2119513401-57	Skin Irrit. 2; H315 Eye Dam. 1; H318 <hr/> specific concentration limit Skin Irrit. 2; H315 >= 5 % Eye Irrit. 2; H319 > 5 - 38 % Eye Dam. 1; H318 > 38 %	>= 5 - < 10
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 %	>= 5 - < 10
1-butoxypropan-2-ol	5131-66-8 225-878-4 603-052-00-8 01-2119475527-28	Eye Irrit. 2; H319 Skin Irrit. 2; H315 <hr/> specific concentration limit Eye Irrit. 2; H319 > 20 % Skin Irrit. 2; H315 > 20 %	>= 5 - < 10

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.
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.



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

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. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight.
- Further information on storage stability : No decomposition if stored and applied as directed.
Protect from frost, heat and sunlight.

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.

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Tightly fitting safety goggles

Hand protection



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

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

Physical state	:	liquid
Colour	:	red
Odour	:	characteristic
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Flash point	:	does not flash
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	ca. 0,4, 100 % at 20 °C
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,048 g/cm ³ at 20 °C
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	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 : Protect from frost, heat and sunlight.

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



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Method: Calculation method

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

Components:

methanesulphonic acid

75-75-2:

Acute oral toxicity : LD50 (Rat): 200 mg/kg

LD50 (Rat): 649 mg/kg

Acute inhalation toxicity : LC0 (Mouse): > 1,88 mg/l
Exposure time: 1 h

LC0 (Rat): 0,74 mg/l

Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): > 1.000 - 2.000 mg/kg

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 52 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 6.300 mg/kg
Method: OECD Test Guideline 402

l-(+)-lactic acid

79-33-4:

Acute oral toxicity : LD50 (Mouse): 4.875 mg/kg

LD50 Oral (Guinea pig): 1.810 mg/kg

LD50 Oral (Rat, female): 3.543 mg/kg

LD50 Oral (Rat, male): 4.936 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 7,94 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

1-butoxypropan-2-ol

5131-66-8:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.300 mg/kg
Method: see user defined free text

LD50 (Rat): > 2.000 mg/kg



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Acute inhalation toxicity : LC50 (Rat): 651 mg/l
Exposure time: 4 h

LC50 (Rat): 3,5 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

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

I-(+)-lactic acid

79-33-4:

Species : Rabbit
Result : Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

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

I-(+)-lactic acid

79-33-4:

Species : Chicken eye
Result : Causes serious eye damage.

Respiratory or skin sensitisation

Product:

Remarks : No data available



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Components:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

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

I-(+)-lactic acid

79-33-4:

Species : Guinea pig
Result : Not a skin sensitizer.

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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

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

Repeated dose toxicity

Components:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

Species : Rat
NOAEL : 259 mg/kg
Application Route : Dermal
Exposure time : 2 Years

I-(+)-lactic acid

79-33-4:

Species : Rat
LOAEL : 886 mg/kg
Application Route : Dermal

Application Route : Oral

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Further information

Product:

Remarks : No data available



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

SECTION 12: Ecological information

12.1 Toxicity

Components:

methanesulphonic acid

75-75-2:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 - 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10 - 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 10 - 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 : 10 - 100 mg/l
Exposure time: 72 h
Method: see user defined free text
Remarks: see user defined free text

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 4,53 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : (Skeletonema costatum (marine diatom)): 5,2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (Bacteria): 230 mg/l
Method: OECD Test Guideline 209
- Sediment toxicity : 2025 mg/l
Duration: 10 d

l-(+)-lactic acid

79-33-4:

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 130 mg/l
Exposure time: 96 h
- LC50 (Danio rerio (zebra fish)): 320 mg/l
Exposure time: 48 h



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

	LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l Exposure time: 96 h
	LC50 (Danio rerio (zebra fish)): 195 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 130 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes
	EC50 (Daphnia pulex (Water flea)): 240 mg/l Exposure time: 48 h
	EC50 (Daphnia magna (Water flea)): 250 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Scenedesmus capricornutum (fresh water algae)): 3.500 mg/l ErC50 (Pseudokirchneriella subcapitata (microalgae)): 2.800 mg/l Exposure time: 72 h EC50 (Pseudokirchneriella subcapitata (algae)): > 2.800 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (green algae)): 1.900 mg/l Exposure time: 70 h
Toxicity to microorganisms	: EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	: Lowest Observed Effect Concentration: 2,18 mg/l Exposure time: 90 d Species: Fish
Toxicity to terrestrial organisms	: LC50: 2.250 mg/kg> Exposure time: 14 d Species: Colinus virginianus (Bobwhite quail)
1-butoxypropan-2-ol 5131-66-8:	
Toxicity to fish	: LC50 (Poecilia reticulata (guppy)): 560 - 1.000 mg/l Exposure time: 96 h NOEC (Poecilia reticulata (guppy)): 180 mg/l Exposure time: 96 h LC50 (Fish): 1.000 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

- NOEC (Daphnia magna (Water flea)): 560 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l
Exposure time: 96 h
Test Type: Cell multiplication inhibition test
- NOEC (Selenastrum capricornutum): 560 mg/l
Exposure time: 96 h
- Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

methanesulphonic acid

75-75-2:

- Biodegradability : Result: rapidly biodegradable
Biodegradation: > 99 %
Exposure time: 28 d

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

- Biodegradability : Biodegradation: > 80 %
Method: OECD 301 B
Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Chemical Oxygen Demand (COD) : 790 mg/g

Dissolved organic carbon (DOC) : 190 mg/g

l-(+)-lactic acid

79-33-4:

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

1-butoxypropan-2-ol

5131-66-8:

- Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 E



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

Remarks: Readily biodegradable, according to appropriate OECD test.

12.3 Bioaccumulative potential

Components:

methanesulphonic acid

75-75-2:

Partition coefficient: n-octanol/water : log Pow: -2,38

1-butoxypropan-2-ol

5131-66-8:

Bioaccumulation : Bioconcentration factor (BCF): < 100
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,2

12.4 Mobility in soil

Components:

methanesulphonic acid

75-75-2:

Distribution among environmental compartments : Koc: 1
Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
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.



APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

SECTION 14: Transport information

14.1 UN number or ID number

ADR : 3265
IMDG : 3265
IATA : 3265

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(methanesulphonic acid)
IMDG : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(methanesulphonic acid)
IATA : Corrosive liquid, acidic, organic, n.o.s.

14.3 Transport hazard class(es)

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Classification Code : C3
Packaging group : III
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)
IMDG
Packaging group : III
Labels : 8
EmS Number : F-A, S-B
IATA
(Cargo) : Corrosive liquid, acidic, organic, n.o.s.
Packaging group : III
Labels : 8

14.5 Environmental hazards

ADR
Environmentally hazardous : no
IMDG
Marine pollutant : no
IATA
Environmentally hazardous : no

14.6 Special precautions for user

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

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



APESIN SAN

WM 0714935

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Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

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, mixtures 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. : Not applicable
- 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: 7,02 %
: Carcinogenic substances: Not applicable
: Mutagenic: Not applicable
: Toxic to reproduction: Not applicable
- Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 17,62 %
923,24 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: 17,62 %
184,69 g/l
VOC content valid only for coating materials used on wood surfaces
- according to Detergents Regulation EC 648/2004 : 5 - <15% Anionic surfactants, Perfumes, LACTIC ACID
- GISBAU (D) : GD 0

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

- H290 : May be corrosive to metals.
H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Tana-Chemie GmbH
Werner & Mertz Group

APESIN SAN

WM 0714935

Order number: 0714935

Version 3.15

Revision Date 21.03.2024

Print Date 15.08.2024

H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to metals
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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; 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:

Met. Corr. 1 H290
Skin Corr. 1A H314
Eye Dam. 1 H318

Classification procedure:

Calculation method
On basis of test data.
On basis of test data.

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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