APESIN SAN

WM 1114817 **Order number: 0714817**

Version 4.3 Revision Date 16.07.2026 Print Date 16.07.2026

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

1.1 Product identifier

Trade name	:	APESIN SAN
UFI	:	TWN6-4047-000M-83S9

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	:	+4961319642526
E-mail address	:	Produktsicherheit@werner-mertz.com
Responsible/issuing person Contact person	:	Product development / product safety

1.4 Emergency telephone

EU: 112

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

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word	:	Danger	
Hazard Statements	:	H290 H314	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary Statements	:	P102 **Prevention:**	Keep out of reach of children.

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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/ doctor.
Disposal:	
P501	Dispose of container into the collection of recyclables only when it is completely empty.

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

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	>= 5 - < 10
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 --- specific concentration limit Skin Irrit. 2; H315	>= 5 - < 10

		>= 5 % Eye Irrit. 2; H319 > 5 - 38 % Eye Dam. 1; H318 > 38 %	
l-(+)-lactic acid	79-33-4 201-196-2 607-743-00-5 01-2119474164-39	Skin Corr. 1C; H314 Eye Dam. 1; H318 --- 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 --- 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 material 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.

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 fire fighting	:	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 fire-fighters	:	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 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.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
methanesulphonic acid	Workers	Inhalation	Long-term local effects	2,89 mg/m3
	Workers	Inhalation	Long-term systemic effects	19,44 mg/kg
	Workers	Skin contact	Long-term systemic effects	19,44 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,44 mg/kg
	Consumers	Inhalation	Acute systemic effects	1,44 mg/kg

	Consumers	Skin contact	Long-term systemic effects	8,33 mg/kg
	Workers	Inhalation	Long-term systemic effects	6,76 mg/m3
	Consumers	Ingestion	Long-term systemic effects	8,33 mg/kg
	Consumers	Inhalation	Long-term local effects	1,73 mg/m3
	Workers	Inhalation	Long-term exposure	0,7 mg/m3
	Consumers	Inhalation	Long-term local effects	0,42 mg/m3
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Workers	Skin contact	Long-term exposure, Systemic effects	2158,33 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	152,22 mg/m3
	Consumers	Skin contact	Long-term exposure, Systemic effects	1295 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	45,04 mg/m3
	Consumers	Ingestion	Long-term exposure, Systemic effects	12,95 mg/kg
1-butoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	147 mg/m3
	Workers	Skin contact	Long-term systemic effects	52 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43 mg/m3
	Consumers	Dermal	Long-term systemic effects	22 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
methanesulphonic acid	Fresh water	0,012 mg/l
	Sea water	0,0012 mg/l

	Fresh water sediment	0,0251 mg/kg
	Soil	0,00183 mg/kg
	Intermittent use/release	0,12 mg/l
	Sewage treatment plant	100 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Fresh water	0,042 mg/l
	Sea water	0,0042 mg/l
	Fresh water sediment	2,025 mg/l
	Sea sediment	0,2025 mg/l
	Soil	0,0061 mg/l
	STP	4 mg/l
1-butoxypropan-2-ol	Fresh water	0,525 mg/l
	Sea water	0,0525 mg/l
	Fresh water sediment	2,36 mg/kg
	Sea sediment	0,236 mg/kg
	Soil	0,16 mg/kg
	STP	10 mg/l
	intermittent release	5,25 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face 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. Recommended Filter type: ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	red
Odor	:	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
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	No data available
Density	:	ca. 1,048 g/cm3 at 20 °C

Relative density	:	No data available
Relative vapor 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 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 Oral (Rat): 200 mg/kg LD50 Oral (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 Dermal (Rabbit): < 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 Method: US EPA Test Guideline OPP 81-1 LD50 Oral (Rat, male): 4.936 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 7,94 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
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: OECD Test Guideline 423 LD50 (Rat): > 2.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 651 mg/l Exposure time: 4 h LC50 (Rat): 3,5 mg/l Exposure time: 4 h Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

methanesulphonic acid

75-75-2:

Result : Causes severe burns.

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.

l-(+)-lactic acid

79-33-4:

Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

methanesulphonic acid

75-75-2:

Result : Causes serious eye damage.

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.

l-(+)-lactic acid

79-33-4:

Species : Chicken eye
Result : Causes serious eye damage.

Respiratory or skin sensitization

Product:

Remarks : No data available

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 sensitization on laboratory animals.

l-(+)-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

l-(+)-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

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article

57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

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

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10.000 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 (Selenastrum capricornutum (green algae)): 10 - 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC20 (activated sludge): > 1.000 mg/l
Exposure time: 0,5 h
Method: ISO 8192

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 LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l Exposure time: 96 h Method: EPA-660/3-75-009 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 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 EC50 (Raphidocelis subcapitata (freshwater green alga)): > 3.500 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
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

EC50 (Fish): < 320 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

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 : Result: rapidly biodegradable
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 : 450 mg/g

(BOD)		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 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

l-(+)-lactic acid

79-33-4:

Bioaccumulation	:	Remarks: Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher. Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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
		log Pow: 1,2 (20 °C) pH: 7

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

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.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.

Waste Code European Waste Catalog
20 01 29*
According to the European Waste Catalog, 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 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.

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 vapor 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 and livestock rearing emissions (integrated pollution prevention and control) Update: Percent volatile: 10,62 %
according to Detergents Regulation EC 648/2004	:	5 - <15% anionic surfactants, perfumes, LACTIC ACID

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.
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 Standardization; 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 Organization 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, Authorization 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Met. Corr. 1	H290	Calculation method
Skin Corr. 1A	H314	On basis of test data.
Eye Dam. 1	H318	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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