

## APESIN FOOD 2 X 5L EAST

WM 0715621

Order number: 0715621

Version 2.1

Revision Date 08.05.2020

Print Date 13.08.2020

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

#### 1.1 Product identifier

Trade name : APESIN FOOD 2 X 5L EAST  
Identification number : 62276, 64614

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Disinfectants, Cleaning agent  
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  
+49(0)6131-19240

### 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

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

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Precautionary statements	:	P102	Keep out of reach of children.
		<b>Prevention:</b>	
		P260	Do not breathe spray.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		<b>Response:</b>	
		P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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. Immediately call a POISON CENTER/doctor.
		P310	
		<b>Disposal:</b>	
		P501	Dispose of contents/ container to an approved waste disposal plant.

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

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
methanesulphonic acid	75-75-2 200-898-6 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  SCL 5 - 100 % 1B; H314 3 - < 5 % 1; H318 3 - < 5 % 2; H315 1 - < 3 % 2; H319 1 - < 3 % 2; H315	>= 5 - < 10

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Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6 270-407-8 01-2119513401-57	Skin Irrit. 2; H315 Eye Dam. 1; H318  SCL >= 5 % 2; H315 > 5 - 38 % 2; H319 > 38 % 1; H318	>= 5 - < 10
l-(+)-lactic acid	79-33-4 201-196-2 01-2119474164-39	Skin Irrit. 2; H315 Eye Dam. 1; H318  SCL >= 10 % 2; H315 >= 3 % 1; H318 1 - < 3 % 2; H319	>= 5 - < 10
1-butoxypropan-2-ol	5131-66-8 225-878-4 01-2119475527-28	Eye Irrit. 2; H319 Skin Irrit. 2; H315  SCL > 20 % 2; H319 > 20 % 2; H315	>= 5 - < 10

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.  
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

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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.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

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

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials 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

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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. Protect from frost.

#### 7.3 Specific end use(s)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

**methanesulphonic acid**  
**75-75-2:**

- End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 2,89 mg/m<sup>3</sup>
- End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 19,44 mg/kg
- End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 1,44 mg/kg

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End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 1,44 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 8,33 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 6,76 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 8,33 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 1,73 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure  
Value: 0,7 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 0,42 mg/m<sup>3</sup>

**Sulfonic acids, C14-16-alkane  
hydroxy and C14-16-alkene,  
sodium salts  
68439-57-6:**

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 2158,33 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 152,22 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 1295 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 45,04 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term exposure, Systemic effects

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**1-butoxypropan-2-ol**  
**5131-66-8:**

Value: 12,95 mg/kg

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 147 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 52 mg/kg bw/day

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 43 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 22 mg/kg bw/day

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 12,5 mg/kg bw/day

**PNEC**

**methanesulphonic acid**  
**75-75-2:**

: Fresh water  
Value: 0,012 mg/l

Marine water  
Value: 0,0012 mg/l

Fresh water sediment  
Value: 0,0251 mg/kg

Soil  
Value: 0,00183 mg/kg

Intermittent use/release  
Value: 0,12 mg/l

Sewage treatment plant  
Value: 100 mg/l

**Sulfonic acids, C14-16-alkane**  
**hydroxy and C14-16-alkene,**  
**sodium salts**  
**68439-57-6:**

: Fresh water  
Value: 0,042 mg/l

Marine water  
Value: 0,0042 mg/l

Fresh water sediment  
Value: 2,025 mg/l

Marine sediment

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	Value: 0,2025 mg/l
	Soil
	Value: 0,0061 mg/l
	STP
	Value: 4 mg/l
<b>1-butoxypropan-2-ol</b> <b>5131-66-8:</b>	: Fresh water
	Value: 0,525 mg/l
	Marine water
	Value: 0,0525 mg/l
	Fresh water sediment
	Value: 2,36 mg/kg
	Marine sediment
	Value: 0,236 mg/kg
	Soil
	Value: 0,16 mg/kg
	STP
	Value: 10 mg/l
	intermittent release
	Value: 5,25 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

#### Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: ca. 0,3, at20 °C
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,048 g/cm <sup>3</sup> at 20 °C
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2 Other information

none

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### 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.

#### 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 : > 2.000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 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

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.

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- STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : Not Rated
- Further information : No data available

### **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
- Skin corrosion/irritation : Species: Rabbit  
Result: Irritating to skin.  
Method: OECD Test Guideline 404
- Serious eye damage/eye irritation : Species: Rabbit  
Result: Risk of serious damage to eyes.  
Method: OECD Test Guideline 405
- Respiratory or skin sensitisation : Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406
- Repeated dose toxicity : Rat: NOAEL: 259 mg/kg

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Application Route: Dermal  
Exposure time: 2 Years

### I-(+)-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
- Skin corrosion/irritation : Species: Rabbit  
Result: Irritating to skin.
- Serious eye damage/eye irritation : Species: Chicken eye  
Result: Causes serious eye damage.
- Respiratory or skin sensitisation : Species: Guinea pig  
Result: Not a skin sensitizer.
- Repeated dose toxicity : Rat: LOAEL: 886 mg/kg  
Application Route: Dermal
- NOAEL: 5.000 mg/l
- Application Route: Oral

### 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
- Acute inhalation toxicity : LC50 Rat: 651 mg/l  
Exposure time: 4 h
- Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg  
Method: OECD Test Guideline 402

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### 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 : 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 bacteria : 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 : (Skeletonema costatum (marine diatom)): 5,2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to bacteria : EC50 (Bacteria): 230 mg/l  
Method: OECD Test Guideline 209
- Plant toxicity : 2025 mg/lDuration: 10 d

**I-(+)-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

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	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	: 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 bacteria	: 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)
<b>1-butoxypropan-2-ol</b> <b>5131-66-8:</b>	
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

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	NOEC (Daphnia magna (Water flea)): 560 mg/l Exposure time: 48 h
Toxicity to algae	: 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 bacteria	: 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
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##### **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.
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Chemical Oxygen Demand (COD) : 790 mg/g

Dissolved organic carbon (DOC) : 190 mg/g

##### **l-(+)-lactic acid 79-33-4:**

Biodegradability	: Result: rapidly biodegradable
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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 Remarks: Readily biodegradable, according to appropriate OECD test.
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### 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: 1Remarks: Highly mobile in soils

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

**Product:**

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

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## 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.  
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.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : 3265  
IMDG : 3265  
IATA : 3265

### 14.2 Proper shipping name



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**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. Not permitted for transport

### 14.3 Transport hazard class

**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. Not permitted for transport  
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 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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
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 %  
: 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: 17,63 %  
929,55 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: 17,63 %  
184,81 g/l  
VOC content valid only for coating materials used on wood surfaces

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

Registration number : BC-VN051320-34

according to Detergents Regulation EC 648/2004 : 5 - <15% Anionic surfactants, 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.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H290	Calculation method
	H314	On basis of test data.
	H318	On basis of test data.

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; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.