

## SANET inoSwitch

WM 0716163

Order number: 0716163

Version 3.2

Revision Date 15.07.2026

Print Date 16.07.2026

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

#### 1.1 Product identifier

Trade name : SANET inoSwitch  
UFI : 00Q7-E08P-J00P-NSQE

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

Use of the Substance/Mixture : 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 : +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)

Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : P102 Keep out of reach of children.

**Prevention:**

P264

Wash skin thoroughly after handling.

P280

Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

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attention.

Safety data sheet available on request.

### Classification in use concentration

5ml/4L; 5ml/0,75L; Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 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.<br>EC-No.<br>Index-No.<br>Registration number    | Classification                                                                                                                                                              | Concentration<br>(% w/w) |
|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Citric acid                                           | 77-92-9<br>201-069-1<br>607-750-00-3<br>01-2119457026-42 | STOT SE 3; H335<br>Eye Irrit. 2; H319                                                                                                                                       | >= 5 - < 10              |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3<br>500-234-8<br>01-2119488639-16              | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412<br><br>specific concentration limit<br>Eye Irrit. 2; H319<br>5 - < 10 %<br>Eye Dam. 1; H318<br>>= 10,0 % | >= 1 - < 3               |
| L-(+)-lactic acid                                     | 79-33-4<br>201-196-2<br>607-743-00-5<br>01-2119474164-39 | Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br><br>specific concentration limit<br>Skin Irrit. 2; H315<br>3 - < 5 %<br>Eye Dam. 1; H318<br>>= 3 %                               | >= 1 - < 3               |

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|  |  |                                                                  |  |
|--|--|------------------------------------------------------------------|--|
|  |  | Eye Irrit. 2; H319<br>1 - < 3 %<br>Skin Corr. 1C; H314<br>>= 5 % |  |
|--|--|------------------------------------------------------------------|--|

### 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.  
If symptoms persist, call a physician.
- 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 give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects  
Irritation
- 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

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### **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.

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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.

### **6.2 Environmental precautions**

Environmental precautions : Try to prevent the material from entering drains or water courses.

### **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.

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## **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.

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.

Further information on storage stability : No decomposition if stored and applied as directed.

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### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

## 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             |
|-------------------------------------------------------|-----------|--------------------|---------------------------------------|-------------------|
| I-(+)-lactic acid                                     | Workers   | Inhalation         | Short-term exposure, Local effects    | 592 mg/m3         |
|                                                       | Consumers | Ingestion          | Short-term exposure, Systemic effects | 35,4 mg/kg        |
|                                                       | Consumers | Inhalation         | Short-term exposure, Local effects    | 296 mg/m3         |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | Workers   | Inhalation         | Long-term systemic effects            | 175 mg/m3         |
|                                                       | Consumers | Inhalation         | Long-term systemic effects            | 52 mg/m3          |
|                                                       | Consumers | Ingestion          | Long-term systemic effects            | 15 mg/kg bw/day   |
|                                                       | Consumers | Skin contact       | Long-term local effects               | 0,079 mg/cm2      |
|                                                       | Workers   | Skin contact       | Long-term systemic effects            | 5830 mg/kg bw/day |
|                                                       | Consumers | Skin contact       |                                       | 2500 mg/kg bw/day |

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

| Substance name           | Environmental Compartment | Value       |
|--------------------------|---------------------------|-------------|
| Citric acid, citric acid | Fresh water               | 0,44 mg/l   |
|                          | Sea water                 | 0,044 mg/l  |
|                          | STP                       | > 1000 mg/l |
|                          | Fresh water sediment      | 34,6 mg/kg  |

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|                                                       |                      |                                |
|-------------------------------------------------------|----------------------|--------------------------------|
|                                                       | Sea sediment         | 3,46 mg/kg                     |
|                                                       | Soil                 | 33,1 mg/kg                     |
| I-(+)-lactic acid                                     | Fresh water          | 1,3 mg/l                       |
|                                                       | STP                  | 10 mg/l                        |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | Fresh water          | 0,129 mg/l                     |
|                                                       | Sea water            | 0,024 mg/l                     |
|                                                       | Fresh water sediment | 4,835 mg/kg dry weight (d.w.)  |
|                                                       | Sea sediment         | 0,4835 mg/kg dry weight (d.w.) |
|                                                       | Soil                 | 7,5 mg/kg dry weight (d.w.)    |
|                                                       | STP                  | 10000 mg/l                     |
|                                                       | intermittent release | 0,071 mg/l                     |
| sodium dihydrogen citrate                             | Fresh water          | 0,44 mg/l                      |
|                                                       | Sea water            | 0,044 mg/l                     |
|                                                       | Fresh water sediment | 34,6 mg/kg                     |
|                                                       | Sea sediment         | 3,46 mg/kg                     |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:

Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

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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 : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

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### **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                                     | : 2,3, 100 %<br>at 20 °C |
| Viscosity, dynamic                     | : No data available      |
| Viscosity, kinematic                   | : No data available      |
| Water solubility                       | : soluble                |
| Solubility in other solvents           | : No data available      |
| Partition coefficient: n-octanol/water | : No data available      |

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Vapor pressure : No data available  
Density : 1,048 g/cm<sup>3</sup> 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 : No data available

### 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

Acute toxicity : Not Rated

#### Components:

##### Citric acid

##### 77-92-9:

Acute oral toxicity : LD50 Oral (Mouse): 5.400 mg/kg

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Method: OECD Test Guideline 401

LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

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

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

Acute oral toxicity : LD50 (Rat): 2.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401

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

### I-(+)-lactic acid

#### 79-33-4:

Acute oral toxicity : LD50 (Rat): 3.730 mg/kg  
LD50 (Mouse): 4.875 mg/kg  
LD50 Oral (Guinea pig): 1.810 mg/kg

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

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

### Skin corrosion/irritation

#### Product:

Remarks : May cause skin irritation and/or dermatitis.

#### Components:

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

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

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.  
Causes serious eye irritation.

#### Components:

### Citric acid

#### 77-92-9:

Result : Eye irritation

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### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

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

### Respiratory or skin sensitization

#### Product:

Remarks : No data available

#### Components:

##### Citric acid

#### 77-92-9:

Result : Does not cause skin sensitization.

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

Routes of exposure : Dermal  
Species : Guinea pig  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

#### Components:

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

### STOT-single exposure

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

#### Components:

##### Citric acid

#### 77-92-9:

Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

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

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### Repeated dose toxicity

#### Components:

##### Citric acid

##### 77-92-9:

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

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Citric acid, citric acid

##### 77-92-9:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h  
Test Type: static test

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

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

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

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according to Regulation (EC) No. 1907/2006, as amended



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### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

##### Toxicity to fish

: LC50 (Danio rerio (zebra fish)): 7,1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (Fish): > 1 - 10 mg/l  
Test Type: flow-through test  
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l  
Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l  
Exposure time: 28 d  
Test Type: flow-through test  
Method: OECD Test Guideline 204

LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

LC50 (Brachydanio rerio (zebrafish)): 7,1 mg/l  
Exposure time: 96 h

NOEC (Fish): 0,1 - 1 mg/l  
Exposure time: 28 Days

##### Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia pulex (Water flea)): 7,4 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0,27 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211

EC50 (Daphnia): 1 - 10 mg/l  
Exposure time: 48 h

NOEC (Daphnia): 0,1 - 1 mg/l  
Exposure time: 21 Days

##### Toxicity to algae/aquatic plants

: EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l

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Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC : 0,95 mg/l  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,93 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC50 (algae): 27,7 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

NOEC (algae): 0,93 mg/l  
Exposure time: 72 h

EC50 (algae): 10 - 100 mg/l  
Exposure time: 72 h

NOEC (algae): 0,1 - 1 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test  
Method: DIN 38412  
GLP: yes

EC10 (Pseudomonas putida): > 10 g/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test

Toxicity to fish (Chronic toxicity) : NOEC: 1 - 10 mg/l  
Species: Leuciscus idus (Golden orfe)  
  
NOEC: 0,14 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 204

NOEC: 0,2 mg/l  
Exposure time: 28 d  
Species: Fish

NOEC: > 0,1 - 1 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

EC50: 0,37 mg/l  
Exposure time: 21 d

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|                                     |                                                                                                                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | 0,74 mg/l<br>Exposure time: 21 d                                                                                                                                                           |
|                                     | NOEC: 0,27 mg/l<br>Exposure time: 21 d                                                                                                                                                     |
| Toxicity to soil dwelling organisms | : NOEC: 750 mg/kg<br>Exposure time: 56 d<br>Species: Eisenia fetida (earthworms)<br>Method: OECD Test Guideline 222<br>Remarks: Information taken from reference works and the literature. |

### **I-(+)-lactic acid**

#### **79-33-4:**

|                                                     |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Lepomis macrochirus (Bluegill sunfish)): 130 mg/l<br>Exposure time: 96 h        |
|                                                     | LC50 (Fish): 320 mg/l<br>Exposure time: 48 h                                            |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 130 mg/l<br>Exposure time: 48 h                    |
|                                                     | EC50 (Daphnia pulex (Water flea)): 240 mg/l<br>Exposure time: 48 h                      |
| Toxicity to algae/aquatic plants                    | : EC50 (Selenastrum capricornutum): 3.500 mg/l                                          |
|                                                     | ErC50 (Pseudokirchneriella subcapitata (microalgae)): 2.800 mg/l<br>Exposure time: 72 h |
| Toxicity to microorganisms                          | : EC50 : > 100 mg/l<br>Exposure time: 3 h                                               |

## **12.2 Persistence and degradability**

### **Components:**

#### **Citric acid, citric acid**

#### **77-92-9:**

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Readily biodegradable.<br>Biodegradation: 97 %<br>Exposure time: 28 d<br>Method: OECD 301 B |
|                  | Result: Readily biodegradable.<br>Biodegradation: 100 %<br>Exposure time: 19 d<br>Method: OECD 301 E  |

|                                 |            |
|---------------------------------|------------|
| Biochemical Oxygen Demand (BOD) | : 526 mg/g |
|---------------------------------|------------|

|                              |            |
|------------------------------|------------|
| Chemical Oxygen Demand (COD) | : 728 mg/g |
|------------------------------|------------|

|      |            |
|------|------------|
| ThOD | : 0,75 g/g |
|------|------------|

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### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

Biodegradability : Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD 301 A

Test Type: anaerobic  
Result: Biodegradable  
Biodegradation: > 60 %  
Exposure time: 41 d  
Method: OECD 301 D

Result: Readily biodegradable.  
Biodegradation: 93 %  
Exposure time: 28 d

Biochemical Oxygen Demand (BOD) : 285 mg/g  
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 518 mg/g

### I-(+)-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

## 12.3 Bioaccumulative potential

### Components:

#### Citric acid, citric acid

#### 77-92-9:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

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

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### 68891-38-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

No data available

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### 12.5 Results of PBT and vPvB assessment

**Product:**

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

**Components:**

**Citric acid, citric acid**

**77-92-9:**

Assessment : Not persistent, bioaccumulative, and toxic (PBT).. Not very persistent and very bioaccumulative (vPvB).

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

**68891-38-3:**

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

### 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.

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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.  
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.

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## SECTION 14: Transport information

### 14.1 UN number or ID number ADR

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Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 14.4 Packing group

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not regulated as a dangerous good

**IATA**

Not dangerous goods

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport 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

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Seveso III: Directive 2012/18/EU : Not applicable  
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 vapor or gaseous form: Not applicable  
: Organic Substances: : portionClass 1: 7,82 %  
: Carcinogenic substances: Not applicable  
: mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and  
(VOC) content livestock rearing emissions (integrated pollution prevention and  
control)  
Update: Percent volatile: 0,06 %

according to Detergents : <5% anionic surfactants, perfumes  
Regulation EC 648/2004

### 15.2 Chemical Safety Assessment

#### SECTION 16: Other information

##### Full text of H-Statements

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.  
H412 : Harmful to aquatic life with long lasting effects.

##### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
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

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according to Regulation (EC) No. 1907/2006, as amended



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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:

Eye Irrit. 2

H319

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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