

GILBENTFERNER Art.-Nr. 975078S

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Washing and cleaning products

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Seilflechter-Tauwerk GmbH
Street: Auf dem Anger 7-9
Place: D-38110 Braunschweig
Telephone: +49(0)5307-9611-0
e-mail: info@seilflechter.de
Contact person: Abteilung Produktsicherheit Telephone: +49(0)2233 9323 760
Responsible Department: info@drkeddo.de

1.4. Emergency telephone number: +49 (0) 361-730730 (24 h, GIZ Erfurt)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**2.3. Other hazards**

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
77-92-9	Citric acid			<11 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
144-62-7	oxalic acid			8-12 %
	205-634-3	607-006-00-8		
	Acute Tox. 4, Acute Tox. 4; H312 H302			
57-55-6	Propane-1,2-diol			4-7 %
	200-338-0		01-2119456809-23	
	Acute Tox. 4, Acute Tox. 4; H312 H302			

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % phosphonates.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing.

Provide fresh air.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If unconscious place in recovery position and seek medical advice.

After contact with skin

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water and soap.

Call a physician in any case!

Wash contaminated clothing prior to re-use.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect).

Do NOT induce vomiting.

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

No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Dry extinguishing powder, alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

Pyrolysis products, toxic; Nitrogen oxides (NO_x); Carbon dioxide; Carbon monoxide

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for firefighters Protective clothing.

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Residues of fire and contaminated water have to be disposed according to the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

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Personal protection equipment: see section 8
Avoid contact with eyes and skin.
Do not touch or tread spilled product.
Provide adequate ventilation.
Do not breathe vapour/aerosol.
Keep container tightly closed.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Cover drains.

6.3. Methods and material for containment and cleaning up

Provide fresh air.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.
Treat the recovered material as prescribed in the section on waste disposal.
Before discharge into sewage plants the product normally needs to be neutralised.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8).
Avoid contact with eyes and skin.
Keep container tightly closed.
Provide adequate ventilation.
Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Observe the usual precautionary measures when handling chemicals.
Don't store containers without labelling.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed in a cool, well-ventilated place.
Suitable container/equipment material: acid-resistant

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Oxidizing agents, strong.
Reducing agent, strong

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
144-62-7	Oxalic acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	DNEL type	Exposure route	Effect	Value
77-92-9	Citric acid				
57-55-6	Propane-1,2-diol				
	Worker DNEL, long-term		inhalation	systemic	168 mg/m ³
	Worker DNEL, long-term		inhalation	local	10 mg/m ³
	Consumer DNEL, long-term		inhalation	systemic	50 mg/m ³
	Consumer DNEL, long-term		inhalation	local	10 mg/m ³

PNEC values

CAS No	Substance	Environmental compartment	Value
77-92-9	Citric acid		
		Freshwater	0,44 mg/l
		Marine water	0,044 mg/l
		Freshwater sediment	34,6 mg/kg
		Marine sediment	3,46 mg/kg
		Micro-organisms in sewage treatment plants (STP)	1000 mg/l
		Soil	33,1 mg/kg
57-55-6	Propane-1,2-diol		
		Freshwater	260 mg/l
		Freshwater (intermittent releases)	183 mg/l
		Marine water	26 mg/l
		Freshwater sediment	572 mg/kg
		Marine sediment	57,2 mg/kg
		Micro-organisms in sewage treatment plants (STP)	20000 mg/l
		Soil	50 mg/kg

8.2. Exposure controls

Appropriate engineering controls

- Make available sufficient washing facilities
- Provide adequate ventilation.

Protective and hygiene measures

- Wash hands and face before breaks and after work and take a shower if necessary.
- Work in well-ventilated zones or use proper respiratory protection.
- When using do not eat, drink, smoke, sniff.
- Only wear fitting, comfortable and clean protective clothing.
- Take off contaminated clothing and wash it before reuse.

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Avoid contact with skin, eyes and clothes.

Eye/face protection

Wear eye protection/face protection.
goggles

Hand protection

Tested protective gloves must be worn: DIN EN 374, acid-resistant
Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Wearing with permanent contact
Thickness of the glove material : 0,35 mm (NBR (Nitrile rubber))
Permeation time (maximum wear time) : >= 8 hour(s)

Observe the wear time limits as specified by the manufacturer.
Check leak tightness/impermeability prior to use.
Use protective skin cream before handling the product.

Skin protection

Use protective clothing chemically resistant to this material.

Respiratory protection

Usually no personal respirative protection necessary.
Respiratory protection necessary at: exceeding exposure limit values, insufficient exhaust, aerosol or mist formation
Particle filter device (DIN EN 143) P2

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	not determined
Odour:	odourless

pH-Value:	>2
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Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	>100 °C
Flash point:	not applicable
Sustaining combustion:	No data available

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

not explosive according to EU A.14

Lower explosion limits:	not determined
Upper explosion limits:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not applicable

Test method

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Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): ~1,2 g/cm³

Water solubility: completely miscible

Solubility in other solvents

No information available.

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Reference to other sections: 7

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name			
	Exposure route	Dose	Species	Source
77-92-9	Citric acid			
	oral	LD50 5400 mg/kg	Mouse	Study report (1981)
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2006)
144-62-7	oxalic acid			
	oral	ATE 500 mg/kg		
	dermal	ATE 1100 mg/kg		
57-55-6	Propane-1,2-diol			
	oral	LD50 22000 mg/kg	Rat	J. Ind. Hyg. Tox., 21, 173-201. (1939)
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1982)

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Practical experience**Observations relevant to classification**

No information available.

Other observations

No information available.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information**12.1. Toxicity**

The product has not been tested.

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
77-92-9	Citric acid				
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Pimephales promelas	Photogr. Sci. Eng. 16(5):370-377 (1972)
	Acute crustacea toxicity	EC50 > 50 mg/l	48 h	other aquatic crustacea: Dreissena polymorpha	Environ.Toxicol.Chem. 16(9): 1930-1934 (
	Algea toxicity	NOEC 425 mg/l	8 d	Scenedesmus quadricauda	Water Research 14: 231-241 (1980)
57-55-6	Propane-1,2-diol				
	Acute fish toxicity	LC50 40613 mg/l	96 h	Oncorhynchus mykiss	Study report (1995)
	Acute crustacea toxicity	EC50 18340 mg/l	48 h	Ceriodaphnia dubia	Publication (1995)
	Crustacea toxicity	NOEC 13020 mg/l	7 d	Ceriodaphnia sp.	Publication (1995)

12.2. Persistence and degradability

No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
57-55-6	Propane-1,2-diol			
		81,7%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
77-92-9	Citric acid	-1,55
57-55-6	Propane-1,2-diol	0,085

BCF

CAS No	Chemical name	BCF	Species	Source
77-92-9	Citric acid	3,2		In: (2009)
57-55-6	Propane-1,2-diol	0,09	not applicable	Review article or ha

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

slightly hazardous to water (WGK 1)

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific

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to the industry and process. hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

Recycle sales packaging via DSD (Duales System Deutschland). Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Citric acid

Propane-1,2-diol

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international conernat le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)