

## Reinigungsmittel Tab Boden

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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 data available

**1.3. Details of the supplier of the safety data sheet**

Company name: NAIKED GmbH  
Street: Luisenweg 109  
Place: D-20537 Hamburg  
Telephone: +49 (0)40 / 60 77 83 60  
Contact person: Zentrale

**1.4. Emergency telephone number:** +49 (0) 700 / 24 112 112 (DRT)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

**2.2. Label elements****GB CLP Regulation****Signal word:** Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves and eye/face protection.  
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/attention.

**2.3. Other hazards**

Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**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			30 - < 35 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts			10 - < 15 %
	273-257-1		01-2119490225-39	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
68439-50-9	Alcohols, C12-14, ethoxylated			1 - < 5 %
	931-014-3			
	Acute Tox. 4, Eye Irrit. 2; H302 H319			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
77-92-9	201-069-1	Citric acid	30 - < 35 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5400 mg/kg		
68955-19-1	273-257-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	10 - < 15 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg Eye Dam. 1; H318: >= 20 - 100 Eye Irrit. 2; H319: >= 10 - < 20		
68439-50-9	931-014-3	Alcohols, C12-14, ethoxylated	1 - < 5 %
	oral: ATE = 500 mg/kg		

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

5 % - &lt; 15 % anionic surfactants, &lt; 5 % non-ionic surfactants, perfumes (Linalool, Citronellol).

**Further Information**

pH regulating agent, Carbonate salt, Microorganisms, Complexing agent, Sugar alcohol, Dye,

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Remove contaminated, saturated clothing immediately.

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.

Call a doctor if you feel unwell.

**After contact with skin**

Remove contaminated, saturated clothing immediately. And wash it before reuse.

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

If skin irritation occurs: Get medical advice/attention.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

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Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps.  
Do NOT induce vomiting.  
Get medical advice/attention if you feel unwell.

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

Reference to other sections: 2

**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, Dry extinguishing powder, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam**Unsuitable extinguishing media**

Strong water jet

**5.2. Special hazards arising from the substance or mixture**Hazardous combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), MetalOx, Sulphur oxides**5.3. Advice for firefighters**

Remove persons to safety.  
Fight fire with normal precautions from a reasonable distance.  
Special protective equipment for firefighters Protective clothing.  
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Dispose of waste according to applicable legislation.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures**

See protective measures under point 7 and 8.  
Wear personal protection equipment (refer to section 8).  
Avoid contact with skin, eyes and clothes.  
Avoid dust formation. Keep away from sources of ignition - No smoking.  
Provide adequate ventilation.  
Avoid breathing dust/mist. In case of inadequate ventilation wear respiratory protection.

**For non-emergency personnel**

Remove persons to safety.  
Measures to prevent aerosol and dust generation

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil.  
Do not allow to enter into surface water or drains.  
Cover drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

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**For containment**

Handling larger quantities: Prevent spread over a wide area (e.g. by containment or oil barriers). Take up mechanically, placing in appropriate containers for disposal.

**For cleaning up**

Clean with detergents. Avoid solvent cleaners.

**Other information**

Provide fresh air.

Avoid dust formation. Do not use a dry brush as dust clouds or static can be created.

Dispose of waste according to applicable legislation.

**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.

Avoid dust formation.

Avoid release to the environment. Collect spillage.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Generation/formation of dust: Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

Germany - Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

Only wear fitting, comfortable and clean protective clothing.

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

Provide eye shower and label its location conspicuously

Make available sufficient washing facilities

To follow: Skin protection

**Further information on handling**

Observe instructions for use.

Measures to prevent aerosol and dust generation

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep locked up and out of reach of children.

Keep/Store only in original container.

Keep in a cool, well-ventilated place.

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect from direct sunlight.

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

Keep away from: Strong alkali; Oxidising agent, strong; Acid; Reducing agent, Alkali metals

**Further information on storage conditions**

Keep away from: Frost, Heat, Protect from moisture.

**7.3. Specific end use(s)**

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No information available.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
77-92-9	Citric acid			
68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts			
Worker DNEL, long-term		dermal	systemic	4060 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	285 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2440 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	85 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	24 mg/kg bw/day

**PNEC values**

CAS No	Substance	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
68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	
Freshwater		0,098 mg/l
Freshwater (intermittent releases)		0,15 mg/l
Marine water		0,0098 mg/l
Freshwater sediment		3,45 mg/kg
Marine sediment		0,345 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,8 mg/l
Soil		0,631 mg/kg

**Additional advice on limit values**

IF exposed: dust/mist

To follow: National regulations Occupational exposure limit values

**8.2. Exposure controls**
**Appropriate engineering controls**

Dust should be exhausted directly at the point of origin.

Provide adequate ventilation as well as local exhaustion at critical locations.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Tightly sealed safety glasses. DIN EN 166

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goggles

**Hand protection**

Tested protective gloves must be worn: EN ISO 374

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.

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material, Breakthrough times and swelling properties of the material must be taken into consideration.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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**

Protective clothing.

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values, dust formation

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Particle filter device (DIN EN 143)

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Thermal hazards**

none

**Environmental exposure controls**

SECTION 6: Accidental release measures

Safe handling: see section 7

Clear spills immediately.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	blue-green
Odour:	characteristic

**Changes in the physical state**

Melting point/freezing point: No data available

Boiling point or initial boiling point and No data available

boiling range:

Flash point: No data available

**Flammability**

Solid/liquid: No data available

Gas: No data available

**Explosive properties**

May form combustible dust concentrations in air.

Lower explosion limits: No data available

Upper explosion limits: No data available

Auto-ignition temperature: No data available

**Self-ignition temperature**

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Solid:	No data available
Gas:	No data available
Decomposition temperature:	No data available
<b>Oxidizing properties</b>	
No data available	
pH-Value:	6,0 (500 ml Water )
Water solubility:	very soluble
<b>Solubility in other solvents</b>	
No data available	
Partition coefficient n-octanol/water:	No data available
Density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

**Other safety characteristics**

Solvent separation test: No data available

Solvent content: No data available

Solid content: No data available

Evaporation rate: No data available

**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

Reaction with: Acid

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Thermal decomposition (Exothermic decomposition energy)

Reaction with: Acid, Alkali (lye), Reducing agent

The product develops hydrogen in an aqueous solution in contact with metals.

May form combustible dust concentrations in air.

**10.4. Conditions to avoid**

Avoid dust formation.

Protect from sunlight.

**10.5. Incompatible materials**Acid, Alkali (lye), Reducing agent, Oxidizing agent, Alkali metals, KNO<sub>2</sub>, NaNO<sub>2</sub>**10.6. Hazardous decomposition products**

Reference to other sections 5

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****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	Method
77-92-9	Citric acid				
	oral	LD50 mg/kg 5400	Mouse	Study report (1981)	OECD Guideline 401
	dermal	LD50 mg/kg > 2000	Rat	Study report (2006)	OECD Guideline 402
68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts				
	oral	LD50 mg/kg >2000			
	dermal	LD50 mg/kg >2000			
68439-50-9	Alcohols, C12-14, ethoxylated				
	oral	ATE mg/kg 500			

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**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.

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



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
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.C hem. 16(9): 1930-1934 (	other: ASTM
	Algae toxicity	NOEC 425 mg/l	8 d	Scenedesmus quadricauda	Water Research 14: 231-241 (1980)	other: Bringmann and Kuhn
68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts					
	Acute fish toxicity	LC50 >10-100 mg/l	96 h	Cyprinus carpio (Common Carp)		84/449/EWG, C.1, semistatisch
	Acute algae toxicity	ErC50 >10-100 mg/l		Scenedesmus subspicatus		92/69/EWG, C.3, statisch
	Acute crustacea toxicity	EC50 >10-100 mg/l	48 h	Daphnia magna (Big water flea)		84/449/EWG, C.2, statisch
	Fish toxicity	NOEC >0,1-1 mg/l				
	Crustacea toxicity	NOEC >0,1-1 mg/l				
	Acute bacteria toxicity	(>100 mg/l)				OECD 209
68439-50-9	Alcohols, C12-14, ethoxylated					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h			

**12.2. Persistence and degradability**

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
77-92-9	Citric acid				
	OECD 301B	97%	28		
	Readily biodegradable (according to OECD criteria).				

**12.3. Bioaccumulative potential**

No further relevant information available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
77-92-9	Citric acid	-1,55

**BCF**

CAS No	Chemical name	BCF	Species	Source
77-92-9	Citric acid	3,2		In: (2009)

**12.4. Mobility in soil**

No data 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.

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**12.6. Endocrine disrupting properties**

No data available

**12.7. Other adverse effects**

No data available

**Further information**

Water hazard class 1

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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

Dispose of waste according to applicable legislation.

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**List of Wastes Code - residues/unused products**

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

**Contaminated packaging**

Recycle sales packaging via DSD (Duales System Deutschland). Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** 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.

**Marine transport (IMDG)**

**14.1. UN number:** 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.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

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)

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Classification according to Regulation (EC) No 1272/2008 [CLP]

Regulation (EC) No. 648/2004 (Detergents regulation)

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**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

Germany  
Wasch- und Reinigungsmittelgesetz  
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)

TRGS 201, TRGS 400 ff., TRGS 500, TRGS 509, TRGS 510, TRGS 555, TRGS 900

**15.2. Chemical safety assessment**

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

Citric acid  
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts

**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 concernant 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 Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
IUB: International Union of Biochemistry

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**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly 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.)*