

Safety Data Sheet

according to Regulation (EC) No 2020/878

Liquid descaler for kettles, coffee machines and steam ovens (312531,312533)

Revision: 25.02.2026

Product code: 312531

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

Liquid descaler for kettles, coffee machines and steam ovens (312531,312533)

Product group: Zulieferprodukt
UFI: 0D10-80TD-U00T-E7R8

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

The product is intended for consumer use.

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

Company name: Bavariapool Thomas Emmerichs GmbH
Street: Gewerbering 11
Place: D-82140 Olching
Telephone: +49 8142 445040 Telefax: +49 8142 4450410
E-mail: info@bavariapool.de
Contact person: Labor
Internet: www.bavariapool.de

Supplier

Company name: BSH Home Appliances Ltd.
Street: M50 Business Park
Place: IRL-Dublin 12 Ballymount
Telephone: 01450 2655
E-mail: mks-spares-ie@bshg.com

1.4. Emergency telephone number:

NPIC emergency number: 01 809 2133

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**Additional advice on labelling**

not relevant

2.3. Other hazards

No risks worthy of mention.

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

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
5329-14-6	sulfamic acid			1 - < 5 %
	226-218-8	016-026-00-0	01-2119488633-28	
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H315 H319 H412			
7664-38-2	Phosphoric acid			1 - < 5 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B; H290 H302 H314			

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	
5329-14-6	226-218-8	sulfamic acid	1 - < 5 %
		oral: LD50 = 3160 mg/kg	
7664-38-2	231-633-2	Phosphoric acid	1 - < 5 %
		dermal: LD50 = 2740 mg/kg; oral: LD50 = 1250 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	

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

< 5 % non-ionic surfactants.

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

Immediately remove any contaminated clothing, shoes or stockings. Remove casualty to fresh air and keep warm and at rest.

After inhalation

Provide fresh air.

After contact with skin

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

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.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

No risks worthy of mention.

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**

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

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NOx), Phosphorus oxides (e.g. P2O5),

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Ammonia (NH₃).**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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

Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Suitable material for diluting or neutralizing: Water.

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**

Conditions to avoid: generation/formation of aerosols. Use only in well-ventilated areas.

Advice on protection against fire and explosion

The product itself does not burn. No special fire protection measures are necessary.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes.

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

Suitable container/equipment material: Polyethylene (PE), Material, acid-resistant.

Unsuitable container/equipment material: Metal.

Hints on joint storage

Do not store together with: Alkali (lye).

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	
		-	2		STEL (15 min)	

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7664-38-2	Phosphoric acid			
Worker DNEL, long-term		inhalation	local	2,92 mg/m³
Consumer DNEL, long-term		inhalation	local	0,73 mg/m³
Worker DNEL, long-term		inhalation	systemic	1 mg/m³

PNEC values

CAS No	Substance		
Environmental compartment	Value		
5329-14-6	sulfamic acid		
Freshwater	0,048 mg/l		
Marine water	0,0048 mg/l		
Freshwater sediment	0,173 mg/kg		
Marine sediment	0,0173 mg/kg		
Micro-organisms in sewage treatment plants (STP)	2 mg/l		
Soil	0,00638 mg/kg		

Additional advice on limit values

See section 7. No additional measures necessary.

8.2. Exposure controls**Appropriate engineering controls**

No special measures are necessary.

Individual protection measures, such as personal protective equipment**Skin protection**

No special measures are necessary.

Respiratory protection

Usually no personal respirative protection necessary.

Environmental exposure controls

No special environmental protection measures are necessary.

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

Physical state:	liquid
Colour:	colourless
Odour:	odourless
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	98 °C
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	not determined
pH-Value (at 20 °C):	0,8
Viscosity / kinematic:	not determined

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Water solubility: (at 20 °C)	miscible.
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	not determined
Density (at 20 °C):	1,036 g/cm ³
Bulk density:	not applicable
Relative vapour density:	not determined

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

Explosive properties not applicable	
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties Not oxidising.	

Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	No data available
Solvent content:	No data available
Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

Further Information

Corrosion rate on steel or aluminum surfaces is < 6,25mm per year at a test temperature of 55 °C

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

Exothermic reaction with: Alkali (lye).

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Alkali (lye).

10.4. Conditions to avoid

Response: >

10.5. Incompatible materials

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

10.6. Hazardous decomposition productsIn case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NO_x), Phosphorus oxides (e.g. P₂O₅), Ammonia (NH₃), Gases/vapours, irritant .**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5329-14-6	sulfamic acid				
	oral	LD50 mg/kg	3160	Rat	
7664-38-2	Phosphoric acid				
	oral	LD50 mg/kg	1250	Rat	
	dermal	LD50 mg/kg	2740	Rabbit	

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: 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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

11.2. Information on other hazards**Endocrine disrupting properties**

not applicable

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

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised. After neutralisation, toxicity is no longer observed.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5329-14-6	sulfamic acid					
	Acute fish toxicity	LC50 mg/l	70,3	96 h Pimephales promelas (fathead minnow)		
7664-38-2	Phosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h Gambusia affinis		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h Daphnia magna (Big water flea)		

12.2. Persistence and degradability

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Highly thinned solution of an inorganic acid Inorganic product which is not eliminable from water through biological cleaning processes.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

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.

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

not applicable

12.7. Other adverse effects

none

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

Dispose of waste according to applicable legislation.

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

List of Wastes Code - used product

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

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Contaminated packaging:

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID 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 or ID 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 or ID 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.

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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 or ID 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

IF SWALLOWED: Call a POISON CENTER if you feel unwell.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Other applicable information

Corrosion rate on steel or aluminum surfaces is < 6,25mm per year at a test temperature of 55 °C

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Indication of changes: section 6, 11, 12

Abbreviations and acronyms

Met. Corr. 1: Corrosive to metals, hazard category 1

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1B: Skin corrosion, sub-category 1B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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.

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