

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Liquid descaler for kettles, coffee machines and steam ovens**

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 1 of 8

**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

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

The product is intended for private 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 (0)8142 / 44504 - 0	Telefax: +49 (0)8142 / 44504 - 10
e-mail:	info@bavariapool.de	
Contact person:	Herr Emmerichs	
Responsible Department:	Labor	

**Supplier**

Company name:	BSH Home Appliances Service, BSH Home Appliances Ltd.
	Grand Union House
Street:	Old Wolverton Road
Place:	Wolverton - Milton Keynes, MK12 5PT
Telephone:	0344 892 8921
e-mail:	mks-spares@bshg.com
Internet:	www.bsh-group.com

**1.4. Emergency telephone number:**

+49 89 19240 Poison Center Rechts der Isar (24 / 7)

**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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Liquid descaler for kettles, coffee machines and steam ovens**

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 2 of 8

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
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.

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

&lt; 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 (NO<sub>x</sub>), Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>), Ammonia (NH<sub>3</sub>).

**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**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Liquid descaler for kettles, coffee machines and steam ovens

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 3 of 8

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

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

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

### 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

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7664-38-2	Phosphoric acid			
Worker DNEL, long-term		inhalation	local	2,92 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Liquid descaler for kettles, coffee machines and steam ovens

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 4 of 8

### 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.

#### Protective and hygiene measures

Avoid contact with skin, eyes and clothes.

#### Eye/face protection

It is recommended to wear tightly fitting safety glasses.

#### Hand protection

It is recommended to wear special 0.11mm-layer gloves produced out of nitrile by KCL company (Dermatril, item nr. 740).

#### Skin protection

No special measures are necessary.

#### Respiratory protection

Usually no personal respiratory 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
pH-Value (at 20 °C):	0,8

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	98 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not applicable

#### Flammability

Solid:	not applicable
Gas:	not applicable

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Liquid descaler for kettles, coffee machines and steam ovens**

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 5 of 8

**Explosive properties**

not applicable

Lower explosion limits:

not applicable

Upper explosion limits:

not applicable

Ignition temperature:

not applicable

**Auto-ignition temperature**

Solid:

not applicable

Gas:

not applicable

Decomposition temperature:

not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure:

not determined

(at 20 °C)

Density (at 20 °C):

1,036 g/cm<sup>3</sup>

Bulk density:

not applicable

Water solubility:

miscible

(at 20 °C)

**Solubility in other solvents**

not determined

Partition coefficient:

not determined

Viscosity / dynamic:

not determined

Viscosity / kinematic:

not determined

Flow time:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Solvent separation test:

No data available

Solvent content:

No data available

**9.2. Other information**

Solid content:

not determined

Corrosion rate on steel or aluminum surfaces is &lt; 6,25 mm 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: &gt; 205°C

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NO<sub>x</sub>), Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>), Ammonia (NH<sub>3</sub>), Gases/vapours, irritant .

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Liquid descaler for kettles, coffee machines and steam ovens

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 6 of 8

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

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

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	1530	Rat	
	dermal	LD50 mg/kg	2740	Rabbit	

##### 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.

### 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

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.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Liquid descaler for kettles, coffee machines and steam ovens

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 7 of 8

### 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.

### 12.6. 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: Contaminated packing must be completely be emptied and, after subsequently rinsing them with water, can be used again.

## SECTION 14: Transport information

### Land transport (ADR/RID)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

### Air transport (ICAO-TI/IATA-DGR)

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Liquid descaler for kettles, coffee machines and steam ovens

Revision date: 07.07.2020

Product code: 00312088\_00312089

Page 8 of 8

- 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

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

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

not relevant

### Other applicable information

Corrosion rate on steel or aluminum surfaces is &lt; 6,25 mm 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 3: Phosphoric acid

#### 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

### 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.

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