

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser für Kaffeevollautomaten, Heißwassergeräte und Dampfgarer_Art.nr. BSH30001_Mat.nr. 00311680

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

1.1. Product identifier

Kalklöser für Kaffeevollautomaten, Heißwassergeräte und Dampfgarer_Art.nr. BSH30001_Mat.nr. 00311680

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

Use of the substance/mixture

Descaler for automatic coffee centres, coffee machines, kettles and steam ovens with water tank

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: PMS Thomin GmbH
 Street: Meckesheimer Str. 7/1
 Place: D-74939 Zuzenhausen
 Telephone: +49(0)6226-7893300
 e-mail: info@pms-serviceprodukte.de
 Internet: www.pms-serviceprodukte.de
 Responsible Department: Frau Baschleben-Thomin
 +49(0)6226-7893366
 info@pms-serviceprodukte.de
 während der Arbeitszeit erreichbar
 Telefax: +49(0)6226-7893399

Supplier

Company name: BSH Hausgeräte Service GmbH
 Street: Carl-Wery-Str. 34
 Place: D-81739 München
 Telephone: +49 (0)89 20355777 (24h)
 e-mail: spareparts@bshg.com
 Responsible Department: Herr Zobel
 +49(0)89-4590-3813
 MCW-KDT-Gefahrstoffe@bshg.com
 während der Arbeitszeit erreichbar
 Telefax: +49 (0)89 20355744 (24h)

1.4. Emergency telephone number:

Giftnotrufnummer: +49(0)160-92250872 (24 h erreichbar)
 auskunft24@t-online.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

5-15% sulfamic acid, sulphamic acid, sulphamidic acid, <5% phosphoric acid.

Signal word: Danger

Pictograms:



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Hazard statements

- H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid			5-15 %
	226-218-8	016-026-00-0		
	Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3; H319 H315 H412			
7664-38-2	phosphoric acid			1 - < 5 %
	231-633-2	015-011-00-6		
	Skin Corr. 1B; H314			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

- Remove contaminated, saturated clothing immediately.
Avoid contact with skin, eyes and clothes.

After inhalation

- Provide fresh air.
Rinse mouth immediately and drink plenty of water.
Seek medical attention if problems persist.

After contact with skin

- Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water.
In case of skin irritation, seek medical treatment.

After contact with eyes

- If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

- Do NOT induce vomiting. Let water be drunken in little sips (dilution effect).

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Call a physician immediately.

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

No data available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product itself does not burn.

Taking a vote on surroundings fire.

5.2. Special hazards arising from the substance or mixture

Heating up or in the fire case formation of poisonous gasses possible.

5.3. Advice for firefighters

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

Additional information

Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on protection equipment and keep away unprotected persons.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not allow uncontrolled leakage of product into the environment.

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).

6.4. Reference to other sections

Information for safe handling see chapter 7.

Information for personal protective equipment see Chapter 8.

Information on personal protective equipment see Chapter 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

Do not mix with alkali.

Advice on protection against fire and explosion

No special precautionary measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

Unsuitable materials for Container: metal.

Do not store at temperatures below: 5 °C

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

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
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing.
Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

Eye protection: Filling and transfer.

Hand protection

Tested protective gloves are to be worn: Suitable material: PVC (Polyvinyl chloride). NR (Natural rubber (Caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). FKM (fluororubber).

Breakthrough times and swelling characteristics of the material must be taken into consideration.

Skin protection

Wear suitable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

Test method

pH-Value (at 20 °C): 1,0

Changes in the physical state

Melting point: not relevant
Initial boiling point and boiling range: not relevant
Sublimation point: not relevant
Softening point: not relevant
Pour point: not relevant
Flash point: not relevant

Flammability

Solid: Don't decide
Gas: Don't decide

Explosive properties

not relevant

Lower explosion limits: Don't decide

Upper explosion limits: Don't decide

Ignition temperature: not relevant

Auto-ignition temperature

Solid: Don't decide
Gas: Don't decide

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Oxidizing properties

Don't decide

Vapour pressure:	not relevant
Density (at 20 °C):	1,065 g/cm ³
Bulk density:	Don't decide
Water solubility:	complete miscible
Partition coefficient:	Don't decide
Viscosity / dynamic:	Don't decide
Viscosity / kinematic:	Don't decide
Flow time:	Don't decide
Vapour density:	Don't decide
Evaporation rate:	Don't decide
Solvent separation test:	Don't decide
Solvent content:	Don't decide

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with base metal, wherein hydrogen is released. May be corrosive to metals (H290)

10.2. Chemical stability

No decomposition at storage as agreed and handling.

10.3. Possibility of hazardous reactions

Reacts with strong alkalis under releasing heat

10.4. Conditions to avoid

No dangerous reactions at a correct storage and handling.

10.5. Incompatible materials

Materials to avoid: Alkalis (alkalis), concentrated. Which one forms an explosive mixture together with air is etching on many metals released in which hydrogen.

10.6. Hazardous decomposition products

Incomplete burning/thermal decomposition lead to the education of: Phosphorus compounds, Nitrogen oxides (NOx). Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

There are no data on the preparation itself.

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	oral	LD50	3160 mg/kg	Rat	
7664-38-2	phosphoric acid				
	oral	LD50	1530 mg/kg	rat	
	dermal	LD50	2740 mg/kg	rabbit	

Irritation and corrosivity

Irritant effect on the eye: corrosive.

Irritant effect on the skin: corrosive.

Sensitising effects

Not expecting.

Specific effects in experiment on an animal

There are no data on the preparation itself.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid					
	Acute fish toxicity	LC50	70,3 mg/l	96 h	Pimephales promelas	
7664-38-2	phosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	

12.2. Persistence and degradability

not relevant

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

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

12.6. Other adverse effects

Damaging effect by pH moving.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 3264

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14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid, sulfamic acid, sulphamic acid, sulphamidic acid)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Classification code: C1

Special Provisions: 274

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 80

Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid, sulfamic acid, sulphamic acid, sulphamidic acid)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Classification code: C1

Special Provisions: 274

Limited quantity: 5 L

Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid and sulphamic acid)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Special Provisions: 223, 274

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-B

Segregation group: acids

Air transport (ICAO)

14.1. UN number: UN 3264


14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid and sulphamic acid)

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14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
		
Special Provisions:	A3 A803	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		852
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		856
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

The product is: Corrosive.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP] Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 14.

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)