

SAFETY DATA SHEET

KaVo. Dental Excellence.

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

Product identifier			
Trade name or designation of the mixture	KaVo Kalklöser		
Registration number	-		
Product registration number	Not available.		
Product use	professional use		
Product code	0,489,3018		
Date of first issue	01-December-2011		
Version number	1.0		
Revision date	01-December-2011		
Supersedes date			
Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	Not available.		
Uses advised against	None known.		
Details of the supplier of the safety data sheet			
Company name	Kaltenbach & Voigt GmbH		
Address	Bismarckring 39		
	D-88400 Biberach		
	Germany		
Telephone number	+49 (0) 7351 56-0		
Fax	+49 (0) 7351 1488		
Contact person	Peter Fischer		
Telephone number	+49 (0) 175 30 57725		
e-mail	peter.fischer@bayer.com		
Emergency telephone number	+49 (0) 7351 56 4000		

Section 2: Hazards identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xi	i;R41
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The full text for all R-phrases is displayed in section 16.

Hazard summary

Physical hazards	Not classified for physical hazards.	
Health hazards	Risk of serious damage to eyes.	
Environmental hazards	Not classified for hazards to the environment.	
Specific hazards	Risk of serious damage to eyes.	
Main symptoms	Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.	

Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended



R-phrases

R41 Risk of serious damage to eyes.

Section 3: Composition/information on ingredients

Mixture

Ge	neral information Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
	Citric acid		<= 99	77-92-9 201-069-1	-	-	
	Classification:	Xi;R41					

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Composition comments

The full text for all R-phrases is displayed in Section 16.

Section 4: First aid measures

Description of first aid measures

Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eye(s) with plenty of water. Get medical attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed	Not available.
Indication of any immediate medical attention and special treatment needed	Not available.

Section 5: Firefighting measures

Extinguishing media		
Suitable extinguishing media	Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.	
Unsuitable extinguishing media	Do not use water jet.	
Advice for firefighters		
Special protective equipment for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.	
Special firefighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. Water runoff can cause environmental damage.	
Hazardous combustion products	Carbon oxides.	
Section 6: Accidental release measures		

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Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.
For emergency responders	Not available.
Environmental precautions	Avoid release to the environment.
Methods and material for containment and cleaning up	If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.
Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling	Avoid dust formation. Do not breathe dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Guard against dust accumulation of this material. Avoid contact with skin and eyes. Avoid prolonged exposure. Take measures to prevent the build up of electrostatic charge. Practice good housekeeping.
	wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Guard against dust accumulation of this material. Avoid contact with skin and eyes. Avoid prolonged exposure. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Avoid dust formation. Guard against dust accumulation of this material. Store in a cool, dry place. Store in accordance with local/regional/national/international regulation.

Section 8: Exposure controls/personal protection

Control parameters			
Occupational exposure limits	onal exposure limits No exposure limits noted for the ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Recommended monitoring Follow standard monitoring procedures. procedures			
DNEL	Not available.		
PNEC	Not available.		
Exposure controls			
Appropriate engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.		
Individual protection measures, such as personal protective equipment			
General information	Not available.		
Eye/face protection	Use tight fitting goggles if dust is generated.		
Skin protection			
- Hand protection	Wear protective gloves.		
- Other	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Respiratory protection	Wear respirator if there is dust formation. Dust filter P2 (for fine dust).		
Thermal hazards	Not available.		
Hygiene measures	Do not breathe dust. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practices.		
Environmental exposure controls	Not available.		

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Solid.
Powder. Crystalline.
White., Colourless.
Odourless.
Not available.
1.8 (5% g/l) @ 25°C
153 °C (307.4 °F)
Not available.
Not applicable.
Not applicable.
Not available.
Not available.
Not available.
Not applicable.
1.665 g/cm3

Solubility (water)	61.8 % @25°C
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	> 170 °C (> 338 °F)
Bulk density	550 - 650 kg/m3 powder 850 - 950 kg/m3 granular
Viscosity	Not available.
Percent volatile	Not available.
Other data	
Solubility (other)	38.3 % @25°C ETHANOL
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid spread of dust.
Incompatible materials	Strong bases. Strong oxidising substances.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

Section 11: Toxicological information

Information on likely routes of exposure

Ingestion	Not available.
Inhalation	Not available.
Skin contact	May cause irritation.
Eye contact	Risk of serious damage to eyes.
Symptoms	Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

Information on toxicological effects

Components	Test results	
Citric acid (77-92-9)	Acute Oral LD50 Mouse: 5040 m	ig/kg
	Acute Oral LD50 Rat: 6730 mg/k	g
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Risk of serious damage to eyes.	
Respiratory sensitisation	Not available.	
Skin sensitisation	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Mixture versus substance information	Not available.	
Other information	Not available.	
Section 12: Ecological in	nformation	
Ecotoxicity	Not expected to be harmful to aquatic organisms.	
Toxicity		
Product	Test results	
KaVo Kalklöser (Mixture)	Fish: 440 - 706 mg/l 96 hours	

Persistence and degradability	The product is easily biodegradable.
Bioaccumulative potential	None.
Mobility	Not available.
Environmental fate - Partition coefficient	Not available.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not available.
Other adverse effects	Not available.

Section 13: Disposal considerations

Waste treatment methods	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport information

ADR

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Section 15: Regulatory information

Safety, health and environmenta	al regulations/legislation specific for the substance or mixture	
EU regulations		
Regulation (EC) No. 2037/20 Not listed.	00 on substances that deplete the ozone layer, Annex I	
Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.		
Regulation (EC) No. 850/200 Not listed.	04 on persistent organic pollutants, Annex I	
Regulation (EC) No. 689/200 Not listed.	8 concerning the export and import of dangerous chemicals, Annex I, part 1	
Regulation (EC) No. 689/200 Not listed.	8 concerning the export and import of dangerous chemicals, Annex I, part 2	
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.		
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.		
Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)		
• • • •	06, Article 59(1). Candidate List	
Not listed.		
Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.	
National regulations	Not available.	
Chemical safety assessment	No Chemical Safety Assessment has been carried out.	

Section 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.

Wording of the R-phrases in sections 2 and 3	R41 Risk of serious damage to eyes.
Revision information	Not available.
Training information	Not available.
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
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