



# 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 RONDOflex 2013 - 27µm powder

**Registration number** -

**Product code** 1.000.5955, 1.000.5957

**Date of first issue** 22-February-2012

**Version number** 1.0

**Product use** professional use

**Revision date** 27-February-2012

**Supersedes date** 23-February-2012

### 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

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D-88400 Biberach  
Germany

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## 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

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Not classified for health hazards.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** For additional information on inhalation hazards, see Section 11 of this safety data sheet.

**Main symptoms** Not available.

### Label elements

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

**Contains:** Aluminiumoxid, Siliciumdioxid, Sodium oxide

**Supplemental label information** Not applicable.

**Other hazards** Not assigned.

## Section 3: Composition/information on ingredients

### Mixture

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Aluminiumoxid	<= 99.5	1344-28-1 215-691-6	-	-	
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**Classification:** -

Siliciumdioxid	<= 0.2	7631-86-9 231-545-4	-	-	
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**Classification:** -

Sodium oxide	<= 0.2	12401-86-4 235-641-7	-	-	
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**Classification:** Xi;R36/37/38

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

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

## Section 4: First aid measures

**General information** Not available.

### 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** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

**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

### General fire hazards

#### Extinguishing media

**Suitable extinguishing media** Water spray, dry powder or carbon dioxide.

**Unsuitable extinguishing media** Do not use water jet.

**Special hazards arising from the substance or mixture**

#### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Special firefighting procedures** No specific fire fighting procedure given. Avoid dust formation.

## Section 6: Accidental release measures

### 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** No special environmental precautions required.

**Methods and material for containment and cleaning up** The product is immiscible with water and will spread on the water surface. 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. Collect dust using a vacuum cleaner equipped with HEPA filter. 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

<b>Precautions for safe handling</b>	Avoid dust formation. Do not breathe dust from this material. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid prolonged exposure. Practice good housekeeping. Avoid eating, drinking and smoking when using the product.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a well-ventilated place. Keep container tightly closed. Avoid dust formation. Guard against dust accumulation of this material.
<b>Specific end use(s)</b>	

## Section 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Aluminiumoxid (1344-28-1)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.
Siliciumdioxid (7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2.4 mg/m <sup>3</sup>	Respirable dust.

##### EU

No exposure limits noted for the ingredient(s).

#### Biological limit values

##### EU

No biological exposure limits noted for the ingredient(s).

##### United Kingdom

No biological exposure limits noted for the ingredient(s).

<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
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<b>DNEL</b>	Not available.
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<b>PNEC</b>	Not available.
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#### Exposure controls

<b>Appropriate engineering controls</b>	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.
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#### Individual protection measures, such as personal protective equipment

<b>General information</b>	Not available.
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<b>Eye/face protection</b>	Use tight fitting goggles if dust is generated.
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##### Skin protection

<b>- Hand protection</b>	Wear protective gloves. Nitrile gloves are recommended.
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<b>- Other</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
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<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Dust filter P3 (for especially fine dust/powder).
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<b>Thermal hazards</b>	Not available.
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<b>Hygiene measures</b>	Do not breathe dust. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practices.
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<b>Environmental exposure controls</b>	Not available.
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## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Not available.
<b>Form</b>	Powder.
<b>Colour</b>	White
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	2040 °C (3704 °F)

<b>Boiling point, initial boiling point, and boiling range</b>	2980 °C (5396 °F)
<b>Flash point</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidizing properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	4 g/cm³ @ 20°C
<b>Solubility (water)</b>	insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	1.54 - 1.6 g/cm³
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	Not available.
<b>Viscosity temperature</b>	Not available.
<b>VOC (Weight %)</b>	Not available.
<b>Percent volatile</b>	Not available.
<b>Other data</b>	
<b>Particle size</b>	27 µm
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Avoid spread of dust.
<b>Incompatible materials</b>	Not established.
<b>Hazardous decomposition products</b>	No dangerous reaction known under conditions of normal use.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Inhalation of dusts may cause respiratory irritation.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.

### Information on toxicological effects

<b>Acute toxicity</b>	Not available.
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### Components

### Test results

Aluminiumoxid (1344-28-1)	Acute Dermal LD50 >= 5000 mg/kg Acute Inhalation LC50 >= 1000 mg/l 4 hours Acute Oral LD50 >= 5000 mg/kg
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<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation.

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## Section 12: Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

### Toxicity

Components	Test results
Aluminiumoxid (1344-28-1)	NOEC Algae: >= 100 mg/l 72 hours NOEC Daphnia: >= 100 mg/l 48 hours NOEC Trout family (Salmonidae): >= 100 mg/l 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

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

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

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

### EU regulations

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed.

**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)**

Not listed.

**Regulation (EC) No. 1907/2006, 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. The product does not need to be labelled in accordance with EC directives or respective national laws.

**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**

R36/37/38 Irritating to eyes, respiratory system and skin.

**Revision information**

Product and company identification: Product and company identification  
Physical & Chemical Properties: Multiple Properties  
HazReg Data: Europe - EU

**Training information**

Not available.

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

Not available.

**Revision date**

27-February-2012

**Print date**

27-February-2012