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Identification of the substance / Preparation and Company:

1.1 Product identifier

> Commercial product name: POLI KORUND 250 μm, 110 μm, 50 μm

1.2 Uses of the product: Mineral blasting abrasive for industrial use.

Details of the supplier of the voluntary product information 1.3

Manufacturer/supplier

Polident d.o.o., **Dental Products Industry** Volčja Draga 42, 5293 Volčja Draga, Slovenija

Tel.:00386 5 3304840, Fax: 00386 5 3304870

E-mail: polident@polident.si

Information provided by

00386 5 3304859

Emergency telephone number

00386 5 3304840

Hazards identification

Classification: Not applicable.

2.2 Label elements: Does not require labelling under the CLP Regulation (EC) No.

1272/2008. But please take note of this product information.

No risk of silicosis during application.

Safety instructions: Possible dust exposure due to fine dust particles.

2.3 Other hazards: Not known.

Composition/information on ingredients 3.

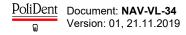
Ingredients	NK	NK	EK	EK micro	EKR
	(Mean values)				
Aluminium oxide	95.65%	95.77%	99. 73%	99.69%	99.30%
(Al ₂ O ₃)					
Titanium dioxide (Ti0 ₂)	2.42%	2.79%	-/-	-/-	-/-

Chemical characterisation	EINECS	CAS No.	(1) REACH Registration No. (2) CLP Notification No	Classification according to CLP Regulation (EC) No. 1272/ 2008	
				Hazard classes Hazard categories	Hazard statements
Aluminium oxide (AbOi)	215-691-6	1344-28-1	1) 01-2119529248 -35-0010 (2) 02 -2119709295-38-0000	-/-	-/-
Titanium dioxide (Ti0 ₂)	236-675-5	13463-67-7	(2) 02-2119879066 -28-0000	-/-	-/-

Substances listed on the so-called 'Candidate List of Substances of Very High Concern (SVHC) for authorisation' of the European Chemicals Agency (ECHA) are not intentional ingredients of this product. It is therefore not to be expected that those substances are present in quantities of > 0.1% in the product. No dangerous ingredients.

Hazardous substances:

Substances with prescribe EC exposure Does not contain substances with EC exposure limits.



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limits:

Please also take note of sections 8 and 16 of this product information.

4.1 Description of first aid measures:

> General information: Consult a doctor in case of health disorders.

Provide the affected person with fresh air. Consult a doctor in After inhalation:

case of irritation in of the respiratory tract.

Remove contact lenses and rinse the eyes with open eyelids After eye contact:

> for 10 minutes under running water. If necessary, consult an ophthalmologist.

After skin contact: Wash with water and rinse.

After swallowing Rinse mouth and drink plenty of water. Do not induce

Not known.

vomiting. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both

acute and delayed:

4.3 Indication of any immediate medical

attention an special treatment needed:

Treat symptomatically.

Firefighting measures

Extinguishing media

Suitable extinguishing media: Product does not burn. Match extinguishing measures to

ambient situation.

Unsuitable extinguishing media: Not known. 5.2 Special hazards arising from the product: Not known.

5.3 Advice for fire fighters: Match the firefighting measures to the environmental

conditions.

Additional information: Not known.

Accidental release measures

6.1 Personal precautions: Avoid dust formation.

6.2 Environmental protection measures: Not known.

6.3 Methods and materials for containment and

cleaning up:

Pick up mechanically and dispose of properly.

6.4 Reference to other sections: Refer to protective measures in section 7 and 8.

Additional information: Not known.

Handling and storage

Precautions for safe handling: For safety reasons, it is recommended to use a protective

sieve during filling.

Avoid dust information. Information on safe handling:

Information on fire and explosion No special fire protection measures are necessary.

protection:

7.2

Additional information: Not known. Conditions for safe storage, including any incompatibilities

Always store product in dry conditions. Information on storage conditions:

Requirements for storage rooms and

containers:

No special requirements needed.

LGK 13 (non-combustible solids) Storage class VCI:

Aluminium oxide is used to manufacture or to use as blasting 7.3 Specific end uses:

or abrasive medium.

Limitation and monitoring of exposure/ personal protective equipment

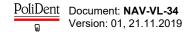
Control parameters

Occupational exposure limit values in the workplace and / or biological limit values

Occupational Exposure Limits (OEL) in Germany for dusts 10 mg/m² Inhalable fraction (E) Respirable fraction (A) 1,25 mg/m³

With exceeding factor 2 each, re. TRGS 900

Community exposure limits Country specific. Pleas inquire in individual cases.



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8.2 Limitation and monitoring of exposure

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment.

Provide adequate ventilation. This can be achieved by local suction or general extraction. Aluminium oxide is not a hazardous substance, thus only the general dust limit value applies. Suitable assessment methods to verify the effectiveness of the protective measures taken include metrological and non-metrological determination methods as described in the Technical Rules for Hazardous Substances (TRGS) 4032 and BS EN 14042 "workplace areas, Guidelines for the implementation and application of processes for assessment of exposure to chemical and biological agents".

Personal protective equipment: The use of personal protective equipment is dependent on

the concentrations and quantity of hazardous substances in

their execution in specific workplaces.

Respiratory protection: Normally, no personal respiratory protective equipment is

necessary. In case of insufficient ventilation or exceeded workplace limits, a protective breathing mask should be worn

(FFP filtering half mask depending on the existing

concentration).

Hand protection: Glove material: Leather

Eye protection: Tight-sealing protective eyewear (dust-protection goggles) in

accordance with EN 166:2001.

Body protection: With normal use, no body protection by half or full-body

coverall and boots is required.

Information on industrial hygiene: Minimum standards for protective measures when handling

working materials are listed in TRGS 500.

Do not eat, drink, smoke or take drugs while using this product. Avoid contact with skin, eyes and clothing. Remove soiled or soaked clothing immediately. Wash hands before breaks and at end of work.

Protect skin by using skin creams.

Environmental protection measures: See sections 6 and 7; no further action is required.

9. Physical and chemical characteristics

9.1 Information on basics physical and chemical properties

Appearance

Appearance: angular Physical state: solid

Colour: white / pink / brown

Odour: odourless

Safety data:

Explosion hazard: The product itself is not explosive; however, formation of

explosive air/dust mixtures is possible

Lower explosion limit: not known
Upper explosion limit: not known
Vapour pressure: not relevant

Specific gravity: approx. 3.9 to 4.1 g/cm³

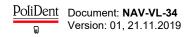
Flow time: not relevant
Water solubility: insoluble in water
pH value: not applicable
Boiling point/range: not applicable

Flash point: not determined as product is not flammable

Melting point: approx. 2 000 °C

Ignition temperature: not determined as product is not flammable

The information about the explosion limits refers to Aluminium oxide. Please refer to the technical data sheet for other physical and chemical data.



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9.2	Other information:	None.
10.	Stability an reactivity	
10.1	Reactivity:	Aluminium oxide is non-reactive and does not chance with
10.2	Chemical stability:	proper handling and storage. Aluminium oxide is chemically stable and does not change with proper handling and storage.
10.3	Possibility of hazardous reactions:	No hazardous reactions known.
10.4	Conditions to avoid:	No decomposition if used according to specifications.
10.5	Incompatible materials:	No hazardous reactions known.
10.6	Hazardous decomposition products:	No known hazardous decomposition products.
11.	Toxicological information	
11.1	Information on toxicological effects:	According to current IFA reports the product contains silicosis-inducing, toxic and carcinogenic components. The indications given in section 8 of this product information must be observed.
	Acute toxicity:	No data on the product available.
	Irritation:	No data on the product available.
	Corrosivity: Sensitisation:	No data on the product available. No data the product available.
	Repeated dose toxicity:	No known toxicity of Aluminium oxide.
	CMR effects (carcinogenic, mutagenic and	No carcinogenic effect according to IFA reports.
	toxic to reproduction):	gg
	Summarised evaluation of the CMR properties:	No known CMR properties.
	Practical experience (relevant for classification and other observations):	No data on the product available.
	Carcinogenicity:	No known carcinogenicity of Aluminium oxide.
	Mutagenicity:	No data on the product available.
	Reproductive toxicity:	No data on the product available.
	Other information:	Not known.
12.	Environmental information	
12.1	Toxicity:	No known effects.
	Ecotoxicity:	For Aluminium oxide no environmental problems are to be
	Field Acceleration	expected when handled and used properly.
	Fish toxicity:	Harmful effects for aquatic organisms are not expected.
	Aquatic invertebrates:	Harmful effects for aquatic organisms are not expected.
12.2	Water plants: Persistence and degradability:	Harmful effects for aquatic organisms are not expected. Based on current experience, this product is inert and not
12.2	reisisterice and degradability.	degradable.
12.3	Bioaccumulation potential :	No data available. Accumulation in biological materials is rather unlikely, as it is inert and insoluble.
12.4	Mobility in soil:	Potential not known.
12.5	Results of PBT and vPvB assessment:	Not relevant. The substances in this product do not meet the criteria for classification as PBT or vPvB.
12.6	Other harmful effects:	Not known.
13.	Disposal considerations	

13. Disposal considerations

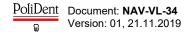
13.1 Waste treatment metho	ds:
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Product: Aluminium oxide. If recycling is not possible, waste must be

disposed of in compliance with national and local regulations.

Confirm the exact waste code with the disposer.

Waste Code according to European Waste 120117 waste blasting material other than those mentioned in



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Catalogue (EWC): 120116.

13.2 Packaging: National and local regulations must be followed.

Contaminates packaging: Packaging with Alumina residues can be recycled.

Cleaned packaging: Packaging can be reused after being cleaned or recycled.

Transport information 14.

Aluminium oxide is no dangerous good.

15. Regulatory information

Safety, health and environmental regulations / legislation specific for the product. 15.1

EU regulations: Aluminium oxide is not subject to the Regulation 722/2012/EU

(ADI-Free).

National regulations:

Water hazard class: Not hazardous to water, classification according to VwVwS,

Annex 4.

Technical instruction on air quality (TA-

Substances not mentioned by name.

Hazardous Incident Ordinance (12. Substance not mentioned by name.

BImSchV [German Federal Immission

Control Regulation]):

Solvents Ordinance (31. BlmSchV [German Substances not mentioned by name.

Federal Immission Control Regulation]):

Chemicals Prohibition Ordinance: Relevant Technical Rules for Hazardous

Substances:

Substances not mentioned by name.

Contains no hazardous substances.

Employment Restrictions: Not known.

Miscellaneous: Aluminium oxide is not subject to the VOC Regulation. International regulations: All Aluminium oxide ingredients are listed with TSCA, AICS,

DSL (NDSL), NEPA and PICCS and registered with MITI /

ENCS under 1-23. Not relevant.

15.2 Chemical safety assessment:

16. Other information

> Further applicable EC directives: Not known.

Restrictions on use recommended by the For industrial applicate only.

manufacturer: Other Information:

The product information in this documentation is correct to the best of our knowledge at the time of printing. The information is intended to provide you with advice on the safe handling of the product mentioned in this product information for storage, processing, transport and disposal. The information cannot be applied to other products. If the product mentioned in this documentation is in anyway tampered with i.e. mixed with other materials, processed or undergoes processing, the information as supplied in this document no longer applies to the new product unless expressly stated otherwise.

2017-07-10 Revision Changes since the last version:

2018-07-17 Advice Protective sieve

2018-08-01 Regulation 722/2012/EU (ADI-Free).

Literature and data sources:

Regulations:

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008

Hazardous Substances Ordinance (GefStoftv) Comrnission Decisioo 2000/532/EC (AW)

Transport Regulations according to ADR, RID and IATA

TRGS 900

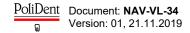
VOC Regulation (OiemVOCFarbV)

Hazard statements, referred to in section 2

and 3 according 1D Regulation (EC) No.

1272/2008:

None.



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The above information is based on the present state of knowledge; however, this shall not constitute a guarantee of product properties and establishes no contractual legal rights. Existing laws and regulations must be strictly followed by the recipient or user of the blasting medium on their own responsibility. Legend:

ADR European agreement concerning the international carriage dangerous goods by road

AW/EWC European Waste Catalogue

BimSchV Regulation on the Implementation of the (German) Federal Immission Control

Ordinance

CAS Chemical Abstracts Service EC European Community EN European Standard

IATA-DGR International Air Transport Association -Dangerous Goods Regulations

PBT persistent, bioaccumulative, toxic

RID Regulations concerning the International Carriage of Dangerous Goods

TRGS Technical I Rules for Hazardous Substances

TSCA Toxic Substances Control Act voc Volatile Organic Compounds (VOCs) vPvB very persistent and very bioaccumulative

VwVwS Administrative Regulation on Substances Hazardous to Water