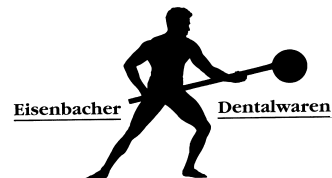


Safety Data Sheet

-Aluminium oxide pure white- -Aluminium oxide pure brown-



According to EG 1907/2006 (REACH)

Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

1. Identification of substance and company	
1.1 Trade name:	Aluminium oxide pure white Aluminium oxide brown
1.2 Product details:	Mineral blasting abrasives
Product form:	Grain shape, edged
Purpose:	Corundum and normal corundum are used for surface treatment as a blasting or abrasive
1.3 Manufacturer:	Eisenbacher Dentalwaren ED GmbH
Street:	Dr.-Konrad-Wiegand-Str. 9
ZIP/city/Country.:	63939 Woerth / GERMANY
Phone:	+49 9372 - 94 04 0
Fax:	+49 9372 - 94 04 29
Information department:	Alexander Schnack Tel.: 0 93 72 - 94 04 - 0 info@eisenbacher.de
Emergency information:	+49 9372 - 94 04 - 0
Email:	info@eisenbacher.de
Homepage:	www.eisenbacher.de
2. Hazards identification	
2.1 Hazard designation:	Not subject to labeling in the sense of the Directives on Dangerous Preparations 1999/45/EC. When applying any of silicosis.
Information pertaining to particular dangers for man and environment:	Possible dust in particulate matter.
User:	Skilled personnel (Dental technicians, dentists)
Classification system:	no classification
2.2 Hazard warning:	No substance with a stipulated EC safety limit contained.
2.3 Other hazards in the supply and processing of the alloy:	Inhalation of grinding dust, irritation of the skin and eyes.
3. Composition/Data on components	
The hazards in Sections 4 to 8 and 10 to 12 do not relate to the product itself, rather discusses the substances resulting from the proper use dusts.	
3.1 Chemical Characterization	EINECS CAS NR.
Aluminiumoxid (Al ₂ O ₃)	215-691-6 1344-28-1
(1) REACH Registrierungs-Nr. (2) CLP- Notifizierungs Nr. (1) 01-2119529248-35-0010 (2) 02-2 119709295-38-0000	
Ingredients with EC-limits: No substance with a stipulated EC safety limit contained.	

Safety Data Sheet

-Aluminium oxide pure white- -Aluminium oxide pure brown-

According to EG 1907/2006 (REACH)

Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

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 components of this product. It is therefore not expected that these substances are present in the product in quantities > 0.1 %. Hazardous ingredients: No hazardous ingredients contained. Substances with prescribed EC limits: No substances with prescribed EC limit values contained.	
4. First aid measures	
4.1 General information:	In case of occurrence of ill health doctor.
4.2 Important acute and delayed symptoms and effects:	No data available.
After inhaling:	Fresh air; in case of disorders, please contact a doctor.
After swallowing:	Rinse out the mouth and drink water afterwards. In case of continuous disorders, a doctor should be consulted
After skin contact:	Wash with water and soap
After eye contact:	Rinse eyes 10 min. under running water and consult a doctor
4.3 Information for the doctor:	No data available.
5. Fire fighting measures	
5.1 Suitable extinguishing aids:	Product does not burn. Fighting measures environments vote.
5.2 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	Not known
5.3 Protective equipment:	Not known
6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures:	Avoid spreading the product on the floor in the storage and production areas as it may cause slipping. Avoid dust formation. Observe protective measures under point 7 and 8.
6.2 Environmental precautions:	Dispose of leftovers in an environmentally friendly manner (in accordance with country-specific legal regulations).
6.3 Measures for cleaning/collecting:	Commercially available cleaning equipment (broom, shovel) can be used to remove the product; avoid dust formation. Do not use compressed air, do not blow off.

Safety Data Sheet

-Aluminium oxide pure white- -Aluminium oxide pure brown-

According to EG 1907/2006 (REACH)

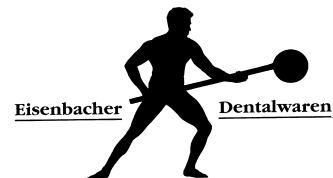
Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

6.4 Reference to other sections:	Observe protective measures in sections 7 and 8.
7. Handling and storage	
7.1 Information for safe handling:	The product does not pose any health risks. However, in order to guarantee the quality and the stability of the product, we recommend the transport and handling at room temperature. It carries no risk of electrostatic discharge.
7.2 Conditions for safe storage, including intolerances:	The product must be stored in closed bags, protected from moisture; if possible in a well-ventilated environment. Large temperature differences are to be avoided, as they could lead to clumping in the bags. The delivery units must be secured against sliding, tipping, rolling and falling. (LGK 13 - Non-combustible solids). No special requirements necessary.
Common storage notes:	Not required
Storage and container:	Only store in original package. The delivery units need to be protected against sliding, overturning, rolling and falling.
Further information about storage conditions:	Dry place; if possible at room temperature
Storage class:	VCI - LGK 13 (non-flammable solids)
Classification according to Ordinal on Industrial Safety and Health:	deleted
7.3 Specific end uses:	Corundum is used for production or use as a blasting or abrasive media.
8. Exposure controls and personal protection	
8.1 To be monitored parameter:	If you can not avoid using a suitable ventilation of the workplace exposure of the product and if the concentrations are lower than or equal to 10 times the limit TWA, we recommend the staff a respirator FFP2 against dust to wear. Einatembare Anteil (E) 10mg/m ³ Alveolengängiger Anteil (A) 1,25mg/m ³ mit je einem Überarbeitungsfaktor 2 laut TRGS 900
8.2 Limiting and monitoring exposure:	Technical measures and the application of adequate working procedures shall have priority over the use of personal protection equipment. The Corundum is not a hazardous material, therefore only the generally applicable dust limit is applicable. Respect the fine dust limits according to TRGS 402 + TRGS 900.
Personal protective equipment:	Wear safety shoes. Respiratory protection: In case of insufficient ventilation or exceeding occupational limit values a respirator should be worn. Hand protection Material: Leather

Safety Data Sheet

-Aluminium oxide pure white- -Aluminium oxide pure brown-



According to EG 1907/2006 (REACH)

Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

General protective and hygienic measures:	Tightly sealed goggles (goggles) in accordance with EN 166:2001 With normal use, no body armor by a half or full protective suit and boots are required. When used as directed, no body protection is required in the form of a half or full protective suit and boots. Minimum standards for protective measures when handling working substances are listed in TRGS 500th When using do not eat, drink, smoke or take drugs. Avoid contact with skin, eyes and clothes. Remove soiled or soaked clothing immediately. Wash hands before breaks and at end of work. Protect skin by using skin creams. Do not breathe dust.																																
9. Physical and chemical properties																																	
9.1 Information on basic physical and chemical properties:	<table border="0"> <tr> <td>Appearance:</td><td>Edged</td></tr> <tr> <td>Physical state:</td><td>solid</td></tr> <tr> <td>Color:</td><td>White, brown</td></tr> <tr> <td>Odour:</td><td>Odourless</td></tr> <tr> <td>Explosion hazard:</td><td>The product is not explosive However, formation of explosive Air / dust mixtures are possible.</td></tr> <tr> <td>Lower Explosive Limit:</td><td>None known</td></tr> <tr> <td>Upper explosion limit:</td><td>Not known</td></tr> <tr> <td>Vapor pressure:</td><td>not relevant</td></tr> <tr> <td>Specific Gravity:</td><td>approx 3.9 to 4.1 g / cm³</td></tr> <tr> <td>Flow time:</td><td>Not relevant</td></tr> <tr> <td>Water:</td><td>Insoluble in water</td></tr> <tr> <td>pH:</td><td>n.s.a. (Not meaningfully applicable)</td></tr> <tr> <td>Boiling point:</td><td>range n.s.a. (Not meaningfully applicable)</td></tr> <tr> <td>Flash point:</td><td>Not applicable, as the product is non-flammable</td></tr> <tr> <td>Melting point:</td><td>2,000 ° C</td></tr> <tr> <td>Ignition temperature:</td><td>Not applicable, as the product nonflammable</td></tr> </table>	Appearance:	Edged	Physical state:	solid	Color:	White, brown	Odour:	Odourless	Explosion hazard:	The product is not explosive However, formation of explosive Air / dust mixtures are possible.	Lower Explosive Limit:	None known	Upper explosion limit:	Not known	Vapor pressure:	not relevant	Specific Gravity:	approx 3.9 to 4.1 g / cm ³	Flow time:	Not relevant	Water:	Insoluble in water	pH:	n.s.a. (Not meaningfully applicable)	Boiling point:	range n.s.a. (Not meaningfully applicable)	Flash point:	Not applicable, as the product is non-flammable	Melting point:	2,000 ° C	Ignition temperature:	Not applicable, as the product nonflammable
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9.2 Other information:	Information about the explosion limits refer to corundum.																																
10. Stability and reactivity																																	
10.1 Reactivity: 10.2 Chemical stability: 10.3 Possibility of hazardous reactions: 10.4 Conditions to avoid: 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	- - - - - - - - - If the product is used properly, no conditions to be avoided Are known. If the product is used properly, no dangerous reactions are to be expected. not applicable If the product is used properly, no dangerous decomposition Products are to be expected.																																

Safety Data Sheet

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According to EG 1907/2006 (REACH)

Versions-No.: 06

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Replaces version No. 05 from 05/2016

11. Toxicological information	
11.1 Information on toxicological effects:	Toxicokinetics, metabolism and distribution: No silicosis, toxic and carcinogenic components in the product standard and corundum contain lt. IFA Opinion no. 2014/21049/9311 from 04.14.2014 mat-loe Acute effects (toxicity, irritation and corrosivity): No data available for the product. Sensitisation (skin, respiratory tract): No data available for the product. Repeated dose toxicity (subacute, subchronic, chronic): No known toxicity of corundum. CMR effects (Carcinogenicity, mutagenicity and toxicity for reproduction): lt. IFA appraisals no carcinogenic effect Summarized evaluation of the CMR properties: Not known Practical experience (relevant for classification and other observations): Not known Other Information: Alumina: LD 50> 5000 mg * kg⁻¹ (rat, orally)
12. Ecological information	
12.1 Acute toxicity:	Ecotoxicity: No environmental problems expected to occur with correct handling and use. Fish toxicity: Harmful effects for aquatic organisms are not expected. Aquatic Invertebrates: Harmful effects for aquatic organisms are not expected. Aquatic plants: Harmful effects for aquatic organisms are not expected.
12.2 Persistence and degradability:	The product is inert, according to previous experiences and not degradable.
12.3 Bioaccumulative potential:	Accumulation in biological materials is unlikely, since inert and insoluble.
12.4 Mobility in soil:	This product is not mobile experience to date.
12.5 Results of PBT and vPvB assessment:	The ingredients in this product does not meet the criteria for classification as PBT or vPvB.
12.6 Other adverse effects:	not known
13. Disposal considerations	
13.1 Waste treatment Methods:	Substance / Preparation: corundum Disposal of the product with commercial cleaning equipment in

Safety Data Sheet

-Aluminium oxide pure white- -Aluminium oxide pure brown-

According to EG 1907/2006 (REACH)

Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

	accordance with the country-specific legal regulations. Waste key in accordance with Regulation Wastes (AVV): 120117 rays means wastes other than those covered by the 120116th Packagings: Packaging with residues in paper bags or big bags can be recycled. Cleaned packaging: The packaging can be used after cleaning or re-used material.
14. Transport information	
14.1 UN number:	- - -
14.2 UN proper shipping Name:	not applicable
14.3 Transport Hazard classes:	No hazardous material according to transport regulations :: - Land transport by rail and by road RTMDR / F, ADR / RID unclassified - Sea transport unclassified - Inland waterway transport ADNR unclassified - Air transport ICAO-TI unclassified
14.4 Packing Group:	not applicable
14.5 Environmental hazards:	see section 13 Not hazardous to water; According to VwVwS, Annex 4
14.6 Special precautions:	No special precautions required
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and under IBC Code:	See 14.3
15. Regulatory information	
15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:	Not known
15.2 chemical safety assessment:	An assessment of the substance safety for substances contained in this product has not been carried out. Information EC Directives: No requirement to identify National rules: Not known Technical instructions (BetrSichV): Not known Code letter and hazard designation of product: Not known Hazardous ingredients for labeling: None known, since no hazardous substances contained.

Safety Data Sheet

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Valid from: 01/2022
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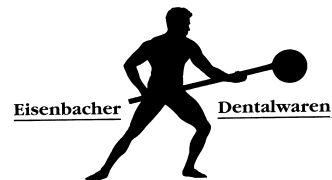
	H- phrases: None Required P- phrases: P260 - Do not breathe dust. P280 - Wear protective gloves / protective clothing/eye protection/face protection P281 - Use personal protective equipment International regulations: All ingredients of the corundum are TSCA listed. Various: Not subject to the VOC Directive.
16. Other information	
These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Eisenbacher Dentalwaren ED GmbH makes no express or implied warranty or guarantee as to the accuracy, reliability or completeness of the information. Persons receiving this information are encouraged by Eisenbacher dental goods ED GmbH deliver the product to any other than the intended purpose of section 1.2. The user is responsible for compliance with all relevant legal requirements. The product must be used by trained dental technicians who have knowledge of the proper use manner and can therefore be considered a misuse of responsibility.	
Relevant H- und P-phrases	P260 Do not breathe dust, fume, gas, mist, vapors, spray P281 Use personal protective equipment P285 In case of inadequate ventilation wear respiratory protection.
Abbreviations and Terms	ACGIH: American Conference of Governmental Industrial Hygienists ADNR: Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf dem Rhein ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service (division of the American Chemical Society) CLP: Classification Labelling Packaging EINECS: European Inventory of Existing Commercial Chemical Substances GHS: Globally Harmonized System H-Satz: Hazard statement (Gefährdungen) IARC: International Agency for Research on Cancer IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IFA: Institut für Arbeitsschutz IMDG: International Maritime Code for Dangerous Goods LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent P-Satz: Precautionary statement (Vorsichtsmaßnahmen) PBT: Provider Backbone Transport RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RTMDR/F: Règlement pour le Transport des Matières Dangereuses par la Route / France TLV-TWA: Zeit gewichteter Durchschnitt, basierend auf eine zulässige Exposition, gemittelt über einen normalen 8-Stunden- Arbeitstag TSCA: Toxic Substances Control Act



Safety Data Sheet

-Aluminium oxide pure white-

-Aluminium oxide pure brown-



According to EG 1907/2006 (REACH)

Versions-No.: 06

Valid from: 01/2022
Replaces version No. 05 from 05/2016

	VOC: Flüchtige organische Substanzen vPvB: very persistent very bioaccumulating VwVwS: Verwaltungsvorschrift zur Einstufung wassergefährdender Stoffe
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