

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

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

1.1 Product identifier

Trade name **Aluminium oxide F 220**

Article number: 58813

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

No further relevant information available.

Application of the substance / the mixture Auxiliary for dental technology

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SRL Dental GmbH
Giulinistraße 2
D-67065 Ludwigshafen, Germany
Tel.: +49 (0) 621 49085 600
Fax.: +49 (0) 621 49085 659

Australian Supplier:

Ultimate Dental Supply
660A South Rd
MOORABBIN VIC 3189
03 9532 1799
info@ultimatedental.com.au

Information: product information: +49 621 49085 600

Australian Emergency Telephone Number

13 11 26 Poisons Hotline 24 hours / 7 days

1.4 Emergency telephone number:

Tel.: +49 621 49085 600, Monday to Friday 8.30 am to 3.15 pm MEZ in German and English language
Please also contact the national emergency numbers

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not to be classified according to the GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Powder based on corundum (Al₂O₃)

Dangerous components:

CAS: 1344-28-1	aluminium oxide	50-100%
EINECS: 215-691-6	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119529248-35-XXXX		

Additional information No further relevant information available.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information No special measures required.

After inhalation : Supply fresh air; consult doctor in case of symptoms.

After skin contact :

Wash with water and soap.

The product is not skin irritating.

After eye contact : Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.

After swallowing :

Rinse out mouth and then drink plenty of water (approx. 500 ml).

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

Trade name Aluminium oxide F 220

(Contd. of page 1)

- . **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- . **5.1 Extinguishing media**
Suitable extinguishing agents
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water jet. Fight larger fires with foam.
- . **5.2 Special hazards arising from the substance or mixture** none
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid causing dust.
Wear protective clothing.
- . **6.2 Environmental precautions:** No special measures required.
- . **6.3 Methods and material for containment and cleaning up:** Collect mechanically.
- . **6.4 Reference to other sections** No dangerous materials are released.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**
Prevent formation of dust.
Provide suction extractors if dust is formed.
- . **Information about protection against explosions and fires:** The product is not flammable
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:**
1344-28-1 aluminium oxide
WEL (Great Britain) Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust
- . **Ingredients with biological limit values:**
- .

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit,		German TRGS 900 (2015)	1,25	mg/m ³

measured as alveolic part
- . **Additional information:** The lists that were valid during compilation were used as a basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Wash hands during breaks and at the end of the work.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

Trade name Aluminium oxide F 220

(Contd. of page 2)

- Avoid contact with the eyes.
- . **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Short term filter device: ABEK-filter
Filter P1.(For solid particles, DIN 3181)
- . **Protection of hands:** Not required.
- . **Material of gloves** not applicable
- . **Penetration time of glove material** not applicable
- . **Eye protection:** Safety glasses (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

- | | |
|------------------|-----------------------------------|
| Form: | Powder |
| Colour: | White |
| Smell: | Odourless |
| Odour threshold: | not applicable |
| pH-value: | Not applicable.
not applicable |

. Change in condition

- | | |
|--|---|
| Melting point/freezing point: | 2,050 °C |
| Initial boiling point and boiling range: | ~3,000 °C |
| Flash point: | Not applicable |
| Inflammability (solid, gaseous) | not applicable |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | not applicable |
| Explosive properties: | Product is not explosive. |
| Critical values for explosion: | |
| Lower: | not applicable |
| Upper: | not applicable |
| Dust explosion class: | |
| Oxidising properties | none |
| Steam pressure: | Not applicable.
not applicable |
| Density at 20 °C | 3.9 g/cm ³ |
| Settled apparent density | 920 kg/m ³ |
| Evaporation rate | not applicable |
| Solubility in / Miscibility with Water: | Unsoluble
Not miscible or difficult to mix |
| Partition coefficient: n-octanol/water: | Not determined.
not determined |

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

Trade name Aluminium oxide F 220

(Contd. of page 3)

- . **Viscosity:**
 - dynamic: Not applicable.
not applicable
 - kinematic: Not applicable.
not applicable
- . **Solvent content:**
 - Solids content: 100.0 %
- . **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No hazardous reactions when stored and handled according to instructions.
- . **10.2 Chemical stability**
 - . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** void
- . **10.6 Hazardous decomposition products:** None

SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
 - . **Acute toxicity** Based on available data, the classification criteria are not met.
 - . **Primary irritant effect:**
 - . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - . **Serious eye damage/irritation** Moderate irritation
 - . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Additional toxicological information:**
 - . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - . **Carcinogenicity** Based on available data, the classification criteria are not met.
 - . **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - . **STOT-single exposure** Based on available data, the classification criteria are not met.
 - . **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - . **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- . **12.1 Toxicity**
 - . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.
- . **Other information:** Easy elimination possible by flocculation or adsorption by sludge.
- . **12.3 Bioaccumulative potential** Does not accumulate in organisms
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
 - . **Other information:**
No COD, no BOD, no AOX
No VOC (0%) according to EC-directive 1999/13/EC
- . **Additional ecological information:**
 - . **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
None

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

Trade name Aluminium oxide F 220

(Contd. of page 4)

- . **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Generally not hazardous for water.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**
Smaller quantities can be disposed with household garbage.
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- . **Uncleaned packaging:**
- . **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- . **14.1 UN-Number**
- . **ADR/RID/ADN, IMDG, IATA** Void
- . **14.2 UN proper shipping name**
- . **ADR/RID/ADN, IMDG, IATA** Void
- . **14.3 Transport hazard class(es)**
- . **ADR/RID/ADN, IMDG, IATA**
- . **Class** Void
- . **14.4 Packing group**
- . **ADR/RID/ADN, IMDG, IATA** Void
- . **14.5 Environmental hazards:** Not applicable.
- . **14.6 Special precautions for user** Not applicable.
- . **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- . **Transport/Additional information:** Not dangerous according to the above regulations.
- . **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- . **National regulations**
- . **Other regulations, limitations and prohibitive regulations**
The general dust exposure limit of 1.25 mg/m³, measured as alveolic part has to be observed (German TRGS 900, 2015).
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 6)

— GB —

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2023

Version number 2

Revision: 24.04.2023

Trade name Aluminium oxide F 220

(Contd. of page 5)

SECTION 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.

. **Department issuing data specification sheet:** AWETA

. **Contact:**

sales manager, AWETA

info@srl-dental.de

. **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

. **Sources:** source ECHA: European Chemicals Agency, <http://echa.europa.eu/>

. *** Data compared to the previous version altered.**