

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

FINOHIT Fine Corundum

REF

FH4250/ FH4251/ FH4252/ FH4253/ FH4255/ FH4256/ FH4257/ FH4258

Product group: Metalloxiide  
CAS No: 1344-28-1  
EC No: 215-691-6

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Surface modifier

**1.3. Details of the supplier of the safety data sheet**

Company name: FINOHIT  
FINO GmbH  
Street: Mangelsfeld 18  
Place: D-97708 Bad Bocklet  
Telephone: +49-97 08-90 94 20  
Telefax: +49-97 08-90 94 21  
e-mail: info@fino.com  
Internet: www.fino.com  
e-mail (Contact person): info@fino.com  
Responsible Department: This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.

**1.4. Emergency telephone number:**

+49-89-1 92 40  
POISON CENTER München  
24 hour(s) 7 day(s)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Additional advice on labelling**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**2.3. Other hazards**

Results of PBT and vPvB assessment not applicable.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**Aluminiumoxide (Al<sub>2</sub>O<sub>3</sub>)

Sum formula: Al<sub>2</sub>O<sub>3</sub>  
Molecular weight: 101,96 g/mol

**Hazardous components**

none (according to UK REACH Regulation)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**General information**

No special measures are necessary.

**After inhalation**

No special measures are necessary.

**After contact with skin**

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

The product is not skin irritating.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

Seek medical attention if problems persist.

**After ingestion**

Rinse mouth thoroughly with water.

Seek medical attention if problems persist.

**4.2. Most important symptoms and effects, both acute and delayed**

none

**4.3. Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Not known.

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

Not known.

**5.3. Advice for firefighters**

No special measures are necessary.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid dust formation.

**For non-emergency personnel**

Emergency procedures

Remove persons to safety. Remove victim out of the danger area.

The danger areas must be delimited and identified using relevant warning and safety signs.

**For emergency responders**

Use personal protection equipment.

**6.2. Environmental precautions**

No special environmental measures are necessary.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically.

**For cleaning up**

Collect in closed and suitable containers for disposal.

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Wash contaminated clothing before reuse.

**Other information**

Take up mechanically.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and after work.

**Further information on handling**

No special handling advices are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

No special requirements.

**Hints on joint storage**

Not required.

**Further information on storage conditions**

Store in cool, dry conditions in well sealed receptacles.

Protect from moisture.

Betriebssicherheitsverordnung (BetrSichV) ---

**7.3. Specific end use(s)**

Auxiliary for manufacture of dental prothesis

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Does not contain substances above concentration limits fixing an occupational exposure limit.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses

**Hand protection**

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. The

glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Thickness of the glove material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Breakthrough time::

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

**Skin protection**

lab coat

**Respiratory protection**

In the case of the formation of dust.

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: solid: Powder  
Colour: white  
Odour: odourless

**Changes in the physical state**

Melting point/freezing point: 2.000 °C  
Boiling point or initial boiling point and boiling range: not applicable  
Softening point: not determined  
Flash point: void

**Flammability**

Solid/liquid: void

**Explosive properties**

not explosive.

Lower explosion limits: ---  
Upper explosion limits: ---  
Auto-ignition temperature: void

**Self-ignition temperature**

Solid: Product is not selfigniting.

Decomposition temperature: not determined

pH-Value: void

Viscosity / dynamic: void

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Partition coefficient n-octanol/water: not applicable

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Vapour pressure:	void
Density:	(3,7 - 4,5) g/cm <sup>3</sup>
Bulk density:	(500 - 2.500) kg/m <sup>3</sup>
Relative vapour density:	not applicable

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties

The product itself does not burn.

**Other safety characteristics**

Solid content: 100%

Evaporation rate: not applicable

**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

Not known.

**10.6. Hazardous decomposition products**

No dangerous decomposition products known.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

If handled according to specifications and if common valid hygienic rules are observed health endangering effects have not been reported.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Specific effects in experiment on an animal**

Toxicological data are not available.

**Additional information on tests**

Based on available data, the classification criteria are not met.

**Practical experience**

No special references.

**11.2. Information on other hazards****Other information**

No special precautionary measures.

**SECTION 12: Ecological information****12.1. Toxicity**

If used in accordance with specifications no environmental effects are to expect.

**12.2. Persistence and degradability**

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

According to present experience harmful effects on purification plants are not to expect.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Harmful effects for aquatic organisms are not to expect.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

May be disposed of in household waste landfill.

**Contaminated packaging**

Non-contaminated packages may be recycled.

Remove according to the regulations.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 0000
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 0000
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 0000
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	UN 0000
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No special measures are necessary.

**14.7. Maritime transport in bulk according to IMO instruments**

No special precautionary measures.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

2004/42/EC (VOC):	none
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
Additional information:	0

**Additional information**

No further data.

**National regulatory information**

Water hazard class (D): - - non-hazardous to water

**Additional information**

Betriebssicherheitsverordnung (BetrSichV) ---

"ZH 1/134 „Information on Breathing Protection""

"ZH 1/105 „Information on Protective Clothing""

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Changes**

\* Data changed compared with the previous version.

**Abbreviations and acronyms**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 "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)"  
 ADR: Accord européen sur le transport 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 Harmonized 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)

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Abrasive	-	-	0	0	6a	4	-	1344-28-1

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*