

Revision date: 18.10.2023

REF**FINOX Fine Corundum**
41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 1 of 8

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

FINOX Fine Corundum

REF41019 / 41019P / 41020 / 41031 / 41031P / 41032 / 41032P / 41033 / 41033P /
41034 / 41034P / 41035 / 41035P / 41037 / 41038 / 41039 / 41040 / 41410 /
41411 / 41412 / 41413 / 41414Product 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 sheetCompany name: FINO GmbH
Street: Mangelsfeld 18
Place: D-97708 Bad Bocklet
Telephone: +49-97 08-90 94 20
e-mail: info@fino.com
Contact person: Joachim Mahlmeister
e-mail: 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.

Telefax: +49-97 08-90 94 21

Internet: www.fino.com

Telephone: +49-97 08-90 94 20

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 (Al₂O₃)Sum formula: Al₂O₃
Molecular weight: 101,96 g/mol**Hazardous components**

none (according to UK REACH Regulation)

Revision date: 18.10.2023

REF

FINOX Fine Corundum
41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 2 of 8

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 victim out of the danger area. Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

No special environmental measures are necessary.

FINOX Fine Corundum

Revision date: 18.10.2023

41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 3 of 8

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).
Following consultation with waste management company and after biological pre-treatment, landfill together with household waste.

For cleaning up

For cleaning, approved industrial vacuum cleaners are recommended, dust class:
Collect in closed and suitable containers for disposal.

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

FINOX Fine Corundum

Revision date: 18.10.2023

REF41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 4 of 8

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

FINOX Fine Corundum

Revision date: 18.10.2023

REF41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 5 of 8

| | |
|--|--|
| 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 |
| Vapour pressure: | void |
| Density: | (3,7 - 4,5) g/cm ³ |
| Bulk density: | (500 - 2.500) kg/m ³ |
| 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.

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.

FINOX Fine Corundum

Revision date: 18.10.2023

REF41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 6 of 8

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

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

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 assessmentThe 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.

Revision date: 18.10.2023

REF

FINOX Fine Corundum
41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
/ 41412 / 41413 / 41414

Page 7 of 8

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

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

FINOX Fine Corundum

Revision date: 18.10.2023

REF

 41019 / 41019P / 41020 / 41031 / 41031P / 41032 /
 41032P / 41033 / 41033P / 41034 / 41034P / 41035 /
 41035P / 41037 / 41038 / 41039 / 41040 / 41410 / 41411
 / 41412 / 41413 / 41414

Page 8 of 8

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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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