

# Safety Data Sheet

## according to Ordinance (EC) No. 1907/2006

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### 1. Identification of the substance / mixture and of the company / undertaking

**Trade name:** MINI FIX Trizact™ disc

**Supplier:** Gerd Eisenblätter GmbH

Jeschkenstraße 12d  
82538 Geretsried  
Phone: + 49 (0) 8171 / 9082 - 010

**Emergencies:** +49 (0) 8171 / 9082 - 010

### 2. Composition / Information on ingredients

| Substance                            | CAS-No.    | Concentration (%) |
|--------------------------------------|------------|-------------------|
| Aluminum Oxide Mineral (non-fibrous) | 1344-28-1  | 18 - 35 %         |
| Inorganic Fluoride                   | 14075-53-7 | 14 - 25 %         |
| Titanium Dioxide                     | 13463-67-7 | 0 - 2 %           |
| Pigment                              | 1309-37-1  | 0 - 2 %           |
| Silica                               | 7631-86-9  | 0 - 2 %           |
| Filler                               | 1332-58-7  | 0.1 - 0.9 %       |
| Cured Resin                          | Mixture    | 13 - 25 %         |
| Cloth Backing                        | Mixture    | 18 - 40 %         |
| Attachment Button                    | Mixture    | 0 - 10 %          |

### 3. Hazards identification

#### 3.1. Hazard Classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 3.2. Label elements

##### Symbols

Not applicable

##### Pictograms

Not applicable

##### Signal word

Not applicable

#### 3.3. Hazards not otherwise classified

None

23 % of the mixture consists of ingredients of unknown acute oral toxicity.

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#### 4. First aid measures

##### 4.1. Description of first aid measures

- After inhalation : Remove person to fresh air. If you feel unwell, get medical attention.
- After skin contact : Wash with soap and water. If signs / symptoms develop, get medical attention.
- After eye contact : Flush with large amounts of water. Remove contact lenses if easy to do.  
Continue rinsing. If signs / symptoms persist, get medical attention.
- After swallowing : Rinse mouth. If you feel unwell, get medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable.

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#### 5. Fire-fighting measures

##### 5.1. Suitable extinguishing media

In case of fire:  
Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

##### Hazardous Decomposition or By-Products

| Substance       | Condition         |
|-----------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide  | During Combustion |

##### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

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#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Observe precautions from other sections.

##### 6.2. Environmental precautions

Not applicable.

##### 6.3. Methods and material for containment and cleaning up

Not applicable.

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### 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid breathing of dust created by sanding, grinding or machining. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

#### 7.2. Conditions for safe storage, including any incompatibilities

No special storage requirements.

### 8. Exposure controls / personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

If a component is disclosed in section 2 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Substance                            | CAS-No.    | Agency | Limit type                                                                                    | Additional Comments            |
|--------------------------------------|------------|--------|-----------------------------------------------------------------------------------------------|--------------------------------|
| ROUGE                                | 1309-37-1  | OSHA   | TWA (as total dust): 15 mg/m <sup>3</sup> ;<br>TWA (respirable fraction): 5 mg/m <sup>3</sup> |                                |
| SILICA, AMORPHOUS                    | 7631-86-9  | OSHA   | TWA concentration: 0.8 mg/m <sup>3</sup> ;<br>TWA: 20 millions of particles/cu. ft.           |                                |
| KAOLIN, TOTAL DUST                   | 1332-58-7  | OSHA   | TWA (as total dust): 15mg/m <sup>3</sup> ;<br>TWA (respirable fraction): 5 mg/m <sup>3</sup>  |                                |
| Titanium Dioxide                     | 13463-67-7 | OSHA   | TWA (as total dust): 15 mg/m <sup>3</sup>                                                     |                                |
| Pigment                              | 1309-37-1  | ACGIH  | TWA (respirable fraction): 5 mg/m <sup>3</sup>                                                | A4: Not class. as human carcin |
| Aluminum Oxide Mineral (non-fibrous) | 1344-28-1  | OSHA   | TWA (as total dust): 15 mg/m <sup>3</sup> ;<br>TWA (respirable fraction): 5 mg/m <sup>3</sup> |                                |
| Titanium Dioxide                     | 13463-67-7 | ACGIH  | TWA: 10 mg/m <sup>3</sup>                                                                     | A4: Not class. as human carcin |
| Pigment                              | 1309-37-1  | OSHA   | TWA (as fume): 10 mg/m <sup>3</sup>                                                           |                                |
| Silica                               | 7631-86-9  | CMRG   | TWA (as respirable dust): 3 mg/m <sup>3</sup>                                                 |                                |
| Aluminum, insoluble compounds        | 1344-28-1  | ACGIH  | TWA (respirable fraction): 1 mg/m <sup>3</sup>                                                | A4: Not class. as human carcin |
| Titanium Dioxide                     | 13463-67-7 | CMRG   | TWA (as respirable dust): 5 mg/m <sup>3</sup>                                                 |                                |
| Filler                               | 1332-58-7  | ACGIH  | TWA (respirable fraction): 2 mg/m <sup>3</sup>                                                | A4: Not class. as human carcin |
| Aluminum Oxide Mineral (non-fibrous) | 1344-28-1  | CMRG   | TWA: 1 fiber/cc                                                                               |                                |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

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### 8.2. Exposure controls

#### **Engineering controls:**

Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and / or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and / or control dust / fume / gas / mist / vapors / spray. If ventilation is not adequate, use respiratory protection equipment. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment)

#### **Respiratory protection:**

Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure.

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates.

For questions about suitability for a specific application, consult with your respirator manufacturer.

#### **Skin / hand protection:**

Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding

#### **Eye / face protection:**

To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Select and use eye / face protection to prevent contact based on the results of an exposure assessment.

The following eye / face protection(s) are recommended: Safety Glasses with side shields.

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## 9. Physical and chemical properties

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

#### **General information**

Appearance:

Form: solid

Odour, Colour: solid abrasive product

Odour threshold: not applicable

pH: not applicable

Change in condition:

Melting point: not applicable

Boiling point: not applicable

Flash point: not applicable

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Evaporation rate: not applicable

Flammability  
(solid, gaseous): not classified

Flammable Limits (LEL): not applicable  
Flammable Limits (UEL): not applicable

Vapour pressure: not applicable

Vapour density: not applicable

Specific gravity: not applicable

Solubility in water: not applicable

Solubility - non-water: not applicable

Partition coefficient  
(n-octanol / water): not applicable

Viscosity: not applicable

Autoignition temperature: not applicable

Decomposition temperature: not applicable

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## 10. Stability and reactivity

### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

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### 11. Toxicological information

The information below may not be consistent with the material classification in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and / or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1. Information on toxicological effects

##### Signs and Symptoms of Exposure

Based on test data and / or information on the components, this material may produce the following health effects:

##### Inhalation:

Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs / symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

##### Skin Contact:

Mechanical Skin irritation: Signs / symptoms may include abrasion, redness, pain, and itching.

Allergic Skin Reaction (non-photo induced) in sensitive people: Signs / symptoms may include redness, swelling, blistering, and itching.

##### Eye Contact:

Mechanical eye irritation: Signs / symptoms may include pain, redness, tearing and corneal abrasion.

Dust created by grinding, sanding, or machining may cause eye irritation. Signs / symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision

##### Ingestion:

Physical Blockage: Signs / symptoms may include cramping, abdominal pain, and constipation.

##### Carcinogenicity:

| Substance        | CAS-No.    | Class Description             | Regulation                                  |
|------------------|------------|-------------------------------|---------------------------------------------|
| Titanium Dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

##### Additional information:

This product, when used under reasonable conditions and in accordance with the Eisenblätter directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

This document covers only the Eisenblätter product. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

This product contains titanium dioxide. Cancer of the lungs has been observed in rats that inhaled high levels of titanium dioxide. No exposure to inhaled titanium dioxide is expected during the normal handling and use of this product. Titanium dioxide was not detected when air sampling was conducted during simulated use of similar products containing titanium dioxide. Therefore, the health effects associated with titanium dioxide are not expected during the normal use of this product

##### Toxicological Data

If a component is disclosed in section 2 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

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## Acute Toxicity

| Substance                            | Route                          | Species       | Value                                           |
|--------------------------------------|--------------------------------|---------------|-------------------------------------------------|
| Overall product                      | Ingestion                      |               | No data available; calculated ATE > 5,000 mg/kg |
| Aluminum Oxide Mineral (non-fibrous) | Dermal                         |               | LD50 estimated to be > 5,000 mg/kg              |
| Aluminum Oxide Mineral (non-fibrous) | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 > 2.3 mg/l                                 |
| Aluminum Oxide Mineral (non-fibrous) | Ingestion                      | Rat           | LD50 > 5,000 mg/kg                              |
| Inorganic Fluoride                   | Dermal                         |               | LD50 estimated to be > 5,000 mg/kg              |
| Inorganic Fluoride                   | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 > 5.3 mg/l                                 |
| Inorganic Fluoride                   | Ingestion                      | Rat           | LD50 5,854 mg/kg                                |
| Pigment                              | Dermal                         | Not available | LD50 3,100 mg/kg                                |
| Pigment                              | Ingestion                      | Not available | LD50 3,700 mg/kg                                |
| Silica                               | Dermal                         | Rabbit        | LD50 > 5,000 mg/kg                              |
| Titanium Dioxide                     | Dermal                         | Rabbit        | LD50 > 10,000 mg/kg                             |
| Silica                               | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 > 0.691 mg/l                               |
| Silica                               | Ingestion                      | Rat           | LD50 > 5,110 mg/kg                              |
| Titanium Dioxide                     | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 > 6.82 mg/l                                |
| Titanium Dioxide                     | Ingestion                      | Rat           | LD50 > 10,000 mg/kg                             |
| Filler                               | Dermal                         |               | LD50 estimated to be > 5,000 mg/kg              |
| Filler                               | Ingestion                      | Human         | LD50 > 15,000 mg/kg                             |

ATE = acute toxicity estimate

## Reproductive and / or Developmental Effects

| Substance | Route     | Value                            | Species | Test Result           | Exposure Duration    |
|-----------|-----------|----------------------------------|---------|-----------------------|----------------------|
| Silica    | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Silica    | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Silica    | Ingestion | Not toxic to development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

## 12. Ecological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and / or its components.

### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and / or its components.

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### 13. Disposal considerations

#### 13.1. Disposal methods

Dispose of contents / container in accordance with the local / regional / national / international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. The substrate that was abraded must be considered as a factor in the disposal method for this product. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

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### 14. Transport information

Not regulated per U.S. DOT, IATA or IMO.

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### 15. Regulatory information

#### 15.1. US Federal Regulations

Contact Eisenblätter for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No  
Immediate Hazard - No  
Delayed Hazard - No

#### 15.2. State Regulations

Contact Eisenblätter for more information.

#### 15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact Eisenblätter for more information.

#### 15.4. International Regulations

Contact Eisenblätter for more information.

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### 16. Other information

NFPA Hazard Classification

Health: 0

Flammability: 1

Instability: 0

Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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The information given is based on current knowledge. Products are described in term of their safety data. The data does not signify any warranty with regard to the products properties.

The product should only be used for the stated application or applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet.

Further information relating to the use of the product can be obtained from the technical datasheets.