

IBIDEN Porzellanfabrik Frauenthal GmbH

**Safety Data Sheet****2001/58/EG**

Printing date: 2019-02-19

issued: 2019-02-19

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**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY****PRODUCT:** Ceramic Honeycomb Monoliths, Material: "MK20" (Cordierite), any dimensions**MANUFACTURER:** IBIDEN Porzellanfabrik Frauenthal GmbH**DATE OF ISSUE:** 19 FEB 2019**2. COMPOSITION**

|                 | Percentage |
|-----------------|------------|
| Aluminaoxide    | 28-38      |
| Silicadioxide   | 45-55      |
| Ironoxide       | 0-2        |
| Titaniumdioxide | 0-2        |
| Calciumoxide    | 0-2        |
| Magnesiaoxide   | 8-12       |
| Sodiumoxide     | 0-2        |
| Potassiumoxide  | 0-2        |

**3. POSSIBLE DANGER**

Under normal use, ceramic products in solid form do not present a health hazard. The ceramic honeycomb monoliths are not a regulated chemical as they do not release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

**4. HEALTH, FIRST AID AND MEDICAL DATA**

**a) INHALATION:** In normal use dust generation is not possible. Dust can only be generated in case of machining, grinding or similar operations normally not foreseen for this product. If dust is generated, there is the possibility of breathing in irritant powders. Prolonged exposure to Silica can lead to silicosis. Free crystalline Silica may be a possible carcinogen. More than 99 % of the Silica in this material are chemically bound as Silicates and glass-phase, therefore, crystalline Silica is also bonded in the matrix of the dust of this material.

**b) SKIN:** **Absorption:** N/A  
**Handling:** These articles are hard and abrasive and may have sharp broken edges.

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**c) EYE:** Dust may cause irritation. Breaking the material may result in fine and sharp fragments.

**In case of contact:** irrigate with water. Do not wipe away fragments or particles. Call for medical assistance if fragments are in eyes.

**d) Ingestion:** N/A

## 5. FIRE AND EXPLOSION HAZARD DATA

As sold the material is not inflammable and there is no risk of fire or explosion.

## 6. ACCIDENTIAL RELEASE

No risk for the environment

## 7. STORAGE AND HANDLING

- a) Stacking height: max. one pallet
- b) Avoid rough handling to avert abrading or crushing the articles.
- c) Minimize dust.
- d) Watch footing if articles fall onto walking surfaces.
- e) Protect against sharp, broken edges.

## 8. LIMITING EXPOSURE AND PERSONAL SAFETY EQUIPMENT

**Respiratory Protection:** wear dust masks if dust is generated  
**Ventilation:** local ventilation recommended if dust is generated  
**Protective gloves:** recommended  
**Eye protection:** recommended  
**Other equipment:** adequate covering to protect from sharp edges. Other equipment as customer's policies dictate

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State of Aggregation:** solid  
**SPECIFIC GRAVITY:** 2.0-2.1 g/cm<sup>3</sup>  
**WEIGHT/VOLUME:** 0.68-1.35 g/cm<sup>3</sup>  
**SOLUBILITY:** in water: insoluble  
in alcohol: insoluble  
other solvents: insoluble  
**SOFTENING POINT:** 1200°C  
(Start of softening of a standard cylinder under constant load of 0.2 N/mm<sup>2</sup>)

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**10. STABILITY AND REACTIVITY**

Silicate Products may react, although not violently, with hydro fluoric acid or active fluorides.

**11. INFORMATION ON TOXICOLOGY**

Non toxic.

**12. INFORMATION ON ECOLOGY**

No danger

**13. INFORMATION ON DISPOSAL**

Waste disposal method: landfill in accordance with local, state and federal regulation. Be guided by extraneous matter to which these articles may have been exposed in the user's process.

**14. REGULATIONS FOR TRANSPORT**

No restrictions

**15. REGULATIONS**

R- Label

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S- Label

---, for disposal of fractured pieces S 37

**16. OTHER INFORMATION**

As sold these articles are solid, inert and non-hazardous. If Customers processing introduces hazardous (toxic), flammable or explosive materials to the articles, be guided by their nature.

If manufacturer crushes or grinds the product and generates dust corresponding state regulations apply.

The information given is based on the present state of knowledge and experience according to the law on declaration and preparation of dangerous chemicals.

The information given is intended to describe safety requirements and does not imply any guarantee of particular characteristics.