

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 25.03.2019

### Kerafix® 2000

11731-010

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

### 1.1. Product identifier

Kerafix® 2000

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

#### Use of the substance/mixture

Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces. Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

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

Company name:	Rolf Kuhn GmbH	
Street:	Jägersgrund 10	
Place:	D-57339 Erndtebrück	
Telephone:	+49 2753 5945-0	Telefax: +49 2753 5945-21
Contact person:	Anwendungstechnik	
e-mail:	anwendungstechnik@rolfkuhngmbh.com (Contact for technical information)	
Internet:	www.kuhn-brandschutz.com	

### 1.4. Emergency telephone number:

+49 (0) 6132 / 84463 (GBK GmbH)  
Responsible for the safety data sheet: GBK GmbH, Ingelheim,  
sds@gbk-ingelheim.de

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

### 2.2. Label elements

#### Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives.

### 2.3. Other hazards

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Article. Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces. Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

The product contains: Acrylic-latex bound AES-wool (Calcium-Magnesium-Silicate (alkaline -earth silicate fiber), CAS-No.: 436083-99-7, REACH registration number 01-2119457644-32).

#### Further Information

None of the ingredients are radioactive according to the EU Directive EURATOM 96/29.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

The first-aid measures refer to the contact with dust arising during the processing of the product (e.g. sawing, drilling, grinding).



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#### After inhalation

Do not breathe dust. In case of inhaling dust (possibly caused by abrasion) the affected person should be moved into fresh air. In case of unwellness seek medical advice.

#### After contact with skin

Remove contaminated clothes and wash before re-use. Wash off immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

#### After contact with eyes

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Remove contact lens. Rinse thoroughly with plenty of water, also under the eyelids. Summon a doctor immediately.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

See also chapter: 4.1, 11. Possible symptoms: irritation of skin and the eyes.

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

No data available

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Product itself does not burn. Fire-extinguishing activities according to surrounding.

##### **Unsuitable extinguishing media**

Not known.

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

None

#### **5.3. Advice for firefighters**

Protective equipment has to be chosen according to the ambient conditions.

#### **Additional information**

Product itself does not burn.

### SECTION 6: Accidental release measures

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

Avoid the formation and deposition of dust. Do not breathe dust. Use breathing apparatus if exposed to dust.

#### **6.2. Environmental precautions**

Dispose of in closed containers. Do not discharge into the drains/surface waters/ground water.

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

Do not stir up dust. Pick up mechanically, avoiding dust, and provide disposal in suitable recipients. Must avoid the use of compressed air and sweeping.

#### **6.4. Reference to other sections**

Information for personal protective equipment look up chapter 8.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Ensure adequate ventilation, especially in confined areas. Avoid dust formation.

##### **Advice on protection against fire and explosion**

No specific fire preventions necessary. Pay attention to general rules of internal fire prevention.

##### **Further information on handling**

Take the usual precautions when handling with chemicals. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. Remove contaminated soaked clothing immediately, don't leave to dry.



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

### Requirements for storage rooms and vessels

Protect against physical damage.

### Hints on joint storage

Do not store with acids. Do not store together with food.

### Further information on storage conditions

Protect from heat and direct solar radiation. Keep from freezing. Protect from moisture. To be kept tightly closed, in a cool and dry place.

## 7.3. Specific end use(s)

Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces.

Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Appropriate engineering controls

Technical and organisational measures must be applied preferentially (personal protection equipment must not be a permanent arrangement). Ensure adequate ventilation, especially in confined areas. Avoid the formation and deposition of dust.

#### Protective and hygiene measures

Take the usual precautions when handling with chemicals.

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and wash before re-use.

#### Eye/face protection

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

#### Hand protection

Protective gloves (EN 374) Safety gloves for the site (EN420, Cat. 1 or 2).

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Nitrile rubber/nitrile latex - NBR (0,35 mm)

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

#### Skin protection

Wear closed/long working clothes.

#### Respiratory protection

Breathing apparatus (particle filter P2) only if dust is formed.

## SECTION 9: Physical and chemical properties

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

Physical state:	Solid
Colour:	White
Odour:	faint

pH-Value: Not applicable

#### Changes in the physical state

Melting point: > 1200 °C

Initial boiling point and boiling range: Not applicable

Sublimation point: Not applicable

Softening point: Not applicable

Flash point: Not applicable



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Sustaining combustion:	Not sustaining combustion
<b>Flammability</b>	
Solid:	Not applicable
<b>Explosive properties</b>	
The product is not explosive.	
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Ignition temperature:	Not applicable
<b>Auto-ignition temperature</b>	
Solid:	Not applicable
Decomposition temperature:	Not determined
<b>Oxidizing properties</b>	
The product is not self-igniting	
Vapour pressure:	Not applicable
Density (at 20 °C):	0,2 - 0,3 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	< 0,001 g/L
<b>Solubility in other solvents</b>	
Not determined	
Partition coefficient:	Not applicable
Viscosity / dynamic: (at 20 °C)	Not determined
Viscosity / kinematic:	Not determined
Flow time:	Not applicable

## 9.2. Other information

Fiber diameter: 1,4 - 3 µm

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Prolonged thermal exposure above 900 °C converts the amorphous material into crystalline material.

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

The oxidation products of the resin binder produced during the first heating temperature range of 180°C to a maximum of 600°C will be partly emitted as flue gases to the ambient air. Ensure adequate ventilation, especially in confined areas. Avoid exposure - before application obtain special instructions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Toxicokinetics, metabolism and distribution**

No toxicological data available.

#### **Acute toxicity**

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



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#### Irritation and corrosivity

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

Breathing dust and fibres may cause temporary irritation to mouth, nose and throat. Ingestion of dust and fibres may cause temporary mechanical irritation of the digestive system. Prolonged contact may irritate skin. Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

#### Sensitising effects

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

No sensitizing effect known.

#### 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.

#### Further information

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Chemically inert.

### 12.2. Persistence and degradability

Not readily degradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT substance.

### 12.6. Other adverse effects

Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Disposal in accordance with local regulations.

#### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 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:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.



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**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:** No dangerous good in sense of this transport regulation.

**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:** No dangerous good in sense of this transport regulation.

**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 dangerous good in sense of this transport regulation.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

#### Other applicable information

Not applicable. No hazardous material as defined by the transport regulations.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### Additional information

This substance is not classified as dangerous in according to Regulation (EC) No 1272/2008. (GHS)

##### National regulatory information

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Update 2019

#### Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

#### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.



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(n.a. = not applicable; n.d. = not determined)

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

