

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 1 of 7

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

### 1.1. Product identifier

Kerafix® Flexlit

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

#### Use of the substance/mixture

Structural fire protection

### 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@rolfkuhnmbh.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

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

#### Special labelling of certain mixtures

Restricted to professional users.

#### Additional advice on labelling

Article. Not applicable.

### 2.3. Other hazards

The product contains alumino silicate wool (RCF/ASW). A carcinogenic effect cannot be ruled out if RCF/ASW dust is inhaled. Avoid dust formation. Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Wear appropriate personal protective equipment.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

The product contains: Acryl polymer, Vermiculit, Refractory Ceramic Fibers (RCF).

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
142844-00-6	aluminum silicate, fibers, refractories			15 - 40 %
	604-314-4		01-2119458050-50	
	Carc. 1B; H350i			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 2 of 7

### General information

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

### 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 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 immediately 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: 11. Possible symptoms: irritation of skin and the eyes. Inhalation of high dust concentrations can result in irritation of the respiratory system. Ingestion causes irritation to the respiratory system and gastrointestinal disturbance. May cause damage to organs. Chronic inhalation of aluminium dust or aluminium vapor respectively can lead to aluminosis which results from the protein denaturing properties of aluminium.

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

Not applicable

## 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

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

### 6.2. Environmental precautions

Avoid release to the environment.

### 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. Caution: motors can act as ignition sources and cause combustible gases, vapours or dust from the environment to ignite or explode.

### 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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 3 of 7

### Advice on safe handling

Release of dust may result from mechanical processing. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. At work do not eat, drink and smoke. Wash hands after handling the product. Use personal protection equipment.

### 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.

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

### Requirements for storage rooms and vessels

Protect against physical damage. Open container only in presence of local exhaust ventilation. Provide appropriate ventilation and exhaust ventilation at the workplaces. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

### 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)

Structural fire protection

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL

### 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).

Safety goggles with side protection (EN 166).

#### Hand protection

Not required.

#### Respiratory protection

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 4 of 7

## SECTION 9: Physical and chemical properties

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

Physical state:	Solid matter (mat with/without aluminum)
Colour:	Grey
Odour:	Odourless

pH-Value:	Not applicable
-----------	----------------

#### Changes in the physical state

Melting point:	Not applicable	ANSI/ASTM D3451-76
Initial boiling point and boiling range:	Not applicable	
Sublimation point:	Not applicable	
Flash point:	Not applicable	
Sustaining combustion:	Not sustaining combustion	

#### Flammability

Solid:	Not applicable
--------	----------------

#### Explosive properties

The product is not explosive.

Lower explosion limits:	Not applicable
Upper explosion limits:	Not applicable
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined

#### Oxidizing properties

The product is not self-igniting

Vapour pressure:	Not applicable
Density (at 20 °C):	0,625 g/cm <sup>3</sup>

#### Solubility in other solvents

Not determined

Viscosity / dynamic:	Not applicable
Viscosity / kinematic:	Not applicable
Vapour density:	Not applicable

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Chemically stable.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Hydrocarbons, Carbon monoxide and carbon dioxide



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 5 of 7

## 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.

#### 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.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

Contains a chemical or chemicals which can cause cancer.

#### STOT-single exposure

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

Fibrosis (general), symptoms: coughing, difficulty in breathing, blood congestion, feelings of oppression in the thoracic region and wheezing.

#### 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

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Disposal in accordance with local regulations.

#### Waste disposal number of waste from residues/unused products

101103 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products;  
waste glass-based fibrous materials

#### Contaminated packaging

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

Page 6 of 7

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<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:</b>	No dangerous good in sense of this transport regulation.
<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:</b>	No dangerous good in sense of this transport regulation.
<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:</b>	No dangerous good in sense of this transport regulation.
<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 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.

## 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):	Not applicable
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

Water contaminating class (D): - - not water contaminating

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

## 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)



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

**Kerafix® Flexlit**

11731-014

**ROLFKUHN GMBH**  
PASSIVER TECHNISCHER BRANDSCHUTZ

Page 7 of 7

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

**Relevant H and EUH statements (number and full text)**

H350i May cause cancer by inhalation.

**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.

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

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

