



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

### Flammi 22

11731-009

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

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#### 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. Construction material class A1 (DIN 4102-1).

### 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.

#### 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.



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#### 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)

Mineral-based fire protection building panels, large-sized and self-supporting, for use in technical fire protection and technical thermal insulation applications.

### 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
9004-34-6	Cellulose (pure), inhalable dust	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	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 soaked clothing immediately.

##### Eye/face protection

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

##### Hand protection

Protective gloves (EN 374)

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nature latex, 0,6 mm, 480 min., 60 min., i.e. protective glove made by www.kcl.de.

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: Sheet  
Colour: Beige / White  
Odour: Odourless

pH-Value: approx. 12

##### Changes in the physical state

Melting point: Not applicable  
Initial boiling point and boiling range: Not applicable  
Sublimation point: Not applicable  
Flash point: Not applicable  
Sustaining combustion: Not sustaining combustion



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#### Flammability

Solid: Not applicable

#### Explosive properties

The product is not explosive.

Lower explosion limits: Not determined

Upper explosion limits: Not determined

Ignition temperature: Not applicable

#### Auto-ignition temperature

Solid: Not applicable

Decomposition temperature: Not determined

#### Oxidizing properties

The product is not self-igniting

Vapour pressure: Not applicable

Density (at 20 °C): approx. 870 g/cm<sup>3</sup>

Water solubility:  
(at 20 °C) insoluble

#### Solubility in other solvents

Not determined

Viscosity / dynamic:  
(at 20 °C) Not determined

Viscosity / kinematic: Not determined

#### 9.2. Other information

No data available

### 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

No data available

#### 10.4. Conditions to avoid

Protect from moisture. Keep from freezing.

#### 10.5. Incompatible materials

Acids

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### 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.

Release of dust may result from mechanical processing. Dust particles, like other inert materials, are mechanically irritating the eyes. Repeated or prolonged exposure may cause irritation of eyes and skin.



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#### 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

No data available

### 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.

#### 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.



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**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.

## 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): 0 %

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

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### 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.

(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.)*

