



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rolf Kuhn GmbH

Revision date: 06.03.2019

### Flammi 12

11731-008

# ROLFKUHN GMBH

PASSIVER TECHNISCHER BRANDSCHUTZ

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#### 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

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### 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.

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### 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.

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### 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.

##### **Further information on storage conditions**

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

#### **7.3. Specific end use(s)**

Refractory material



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**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]: Natural latex, 0,6 mm, 480 min., app. 480 min.

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 matter  
 Colour: Beige / Brown  
 Odour: Odourless

pH-Value: 8 - 10

**Changes in the physical state**

Melting point: > 1300 °C

Initial boiling point and boiling range: Not determined

Sublimation point: Not determined

Flash point: Not applicable

Sustaining combustion: Not sustaining combustion

**Flammability**

Solid: Not applicable

**Explosive properties**

The product is not explosive.

Lower explosion limits: Not determined

Upper explosion limits: Not determined



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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):	Not determined
Water solubility: (at 20 °C)	Immiscible
<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

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under normal conditions.

Above 150°C, a thermic decomposition may take place.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 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.

#### **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.



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#### 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.

#### 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.



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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.

#### 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.)*

