

# Safety Data Sheet

## 1. Identification of the substance/mixture and of the company / undertaking

### 1.1. Product identifier

Product code None.  
Synonyms ZR Gel

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

Use of the Substance/Mixture Desiccant

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

Company/Undertaking Identification RMF Systems  
Coenecoop 71  
2741PH Waddinxveen  
the Netherlands  
info@rmffilter.com  
www.rmffilter.com  
Tel: +31 (0)182 30 2888  
Fax: +31 (0)182 30 2776

### 1.4. Emergency telephone number

RMF Systems: +31 (0)182 30 2888 [08:00 - 16:30]  
Issuing date 10.10.2016  
Version GHS 3 (Previous versions: GHS 2)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation  
(EC) No. 1272/2008

The substance or mixture is not classified.

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

### 2.2. Label elements

Signal Word None.  
Hazard Statements None.  
Precautionary statements None.  
Supplemental information None.

Product identifier

Zeolite, CAS-No. 1318-02-1, EC-No. 215-283-8; 930-915-9, REACH No. 01-211942903449-0012  
Amorphous silica, CAS-No. 7631-86-9, EC-No. 231-545-4, REACH No. 01-211937949916-0036  
Clay binder,  
Quarz, CAS-No. 14808-60-7, EC-No. 238-878-4

## 2.3. Other hazards

No dangerous ingredients according to Regulation (EC) No. 1272/2008.  
The activated product generates much heat in contact with water.

## 3. Composition/information on ingredients

Chemical characterization

Zeolite, crystalline, synthetic, non fibrous Synthetic amorphous silica  
Humidity Indicator (0.1%)

COMPONENTS	CLP CLASSIFICATION	PRODUCT IDENTIFIER
Zeolite	50% - 75%	CAS-No.: 1318-02-1 EC-No.: 215-283-8; 930-915-9 REACH No.: 01-2119429034-49-0012
Amorphous silica	25% - 30%	CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH No.: 01-2119379499-16-0036
Clay binder	10% - 20%	
Quarz	0.1% - 1%	CAS-No.: 14808-60-7 EC-No.: 238-878-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

## 4. First aid measures

### 4.1. Description of first aid measures

Inhalation

No special measures required.

Skin contact

Wash with water and soap as a precaution.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

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

None known.

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

None known.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media No special measures required.

Extinguishing media which must not be used for safety reasons

None.

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

No data is available on the product itself.

### 5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires.

Specific methods

No special measures required.

## 6. Accidental release measures

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

Advice for non-emergency personnel

No special measures required.

Advice for emergency responders

Handle in accordance with good industrial hygiene and safety practice.

### 6.2. Environmental precautions

No special environmental precautions required.

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

Use mechanical handling equipment. After cleaning, flush away traces with water.

## 7. Handling and storage

### 7.1. 7.1. Precautions for safe handling

Take precautionary measures against static discharges.

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

Store at room temperature in the original container.

### 7.3. Specific end use(s)

No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Exposure limit(s)	Total dust Permissible exposure limit: 10 mg/m <sup>3</sup> . Alveolar dust fraction: Permissible exposure limit: 3 mg/m <sup>3</sup> .
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### 8.2. Exposure controls

Occupational exposure controls	General industrial hygiene practice.
Personal protection equipment	
Respiratory protection	No special protective equipment required.
Hand protection	DRY moleskin gloves.
Eye protection	Avoid contact with eyes.
Skin and body protection	No special measures required.
Thermal hazards	No special measures required.
Environmental exposure controls	No special measures required.

## 9. Physical and chemical properties

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

Form	Solid.
Colour	Red (Rubingel), Beige (Zeolite granules).
Odour	Odorless
Odour Threshold	No information available.
pH:	6 - 11 (5% in H <sub>2</sub> O)
Melting point/range:	> 400°C
Boiling point/range:	No information available.
Flash point:	does not flash
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapour density:	No information available.
Relative density:	500-700 g/L
Water solubility:	Practically insoluble
Partition coefficient (n-octanol/water):	n.a.
Auto ignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	Not hazardous
Oxidising properties:	None

### 9.2. Other information

General Product Characteristics	No information available.
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# 10. Stability and reactivity

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

No decomposition if used as directed.

## 10.3. Possibility of hazardous reactions

No information available.

## 10.4. Conditions to avoid

Not required.

## 10.5. Incompatible materials

The activated product generates much heat in contact with water.

## 10.6. Hazardous decomposition products

None under normal use.

# 11. Toxicological information

## 11.1. Information on toxicological effects

### Acute toxicity

Zeolite (CAS 1318-02-1)

LD50/oral/rat > 5000 mg/kg.

LD50/dermal/rabbit > 2000 mg/kg.

LC50/inhalation/rat > 15 mg/l.

No observed adverse effect level (NOAEL): 250 - 300 mg/kg (rat, oral).

Amorphous silica (CAS 7631-86-9)

LD50/oral/rat = 10000 mg/kg.

LCLO/inhalation/4h/rat = 139 mg/m<sup>3</sup>.

LD50/dermal/rabbit > 5000 mg/kg.

### Skin corrosion/irritation

No skin irritation.

### Serious eye damage/eye irritation

Slight eye irritation.

### Respiratory / Skin Sensitisation

None.

### Carcinogenicity

Animal testing did not show any carcinogenic effects.

### Germ cell mutagenicity

Animal testing did not show any mutagenic effects.

### Reproductive toxicity

Animal testing did not show any hazardous effects.

### Specific target organ toxicity

(single exposure)

No data available.

### Specific target organ toxicity

(repeated exposure)

No data available.

### Aspiration hazard

No data available.

### Human experience

This product has no known adverse effect on human health.

## 12. Ecological information

### 12.1. Toxicity

Zeolite (CAS 1318-02-1)

EC50/48h/daphnia > 100 mg/l .

LC50/96h/fish > 680 mg/l.

EC50/96h/algae = 300 mg/l.

Amorphous silica (CAS 7631-86-9)

LC50/96h/fish > 10000 mg/l.

EC50/24h/daphnia = 10000 mg/l.

EC50/72h/algae > 10000 mg/l.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

Does not bioaccumulate. Accumulation in aquatic organisms is unlikely. Accumulation in terrestrial organisms is unlikely.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

## 14. Transport information

ADR/RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

Further Information

Not classified as dangerous in the meaning of transport regulations.

## 15. Regulatory information

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

Regulatory Information

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

### 15.2. Chemical safety assessment

Not required.

## 16. Other information

Revision Note

Safety datasheet sections which have been updated: 9, 11, 12.

Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

PEL: Permissible Exposure Limit

Full text of phrases referred to under sections 2 and 3

None.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.