

Revision date: 30-Aug-2018

Supersedes: 17-Feb-2016

SDS Number: 12121

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier****Product name:** BENGEL® 828**Other means of identification****Recommended use of the chemical and restrictions on use****Product Use Description:** Rheological additive**Details of the supplier of the safety data sheet****Company/Undertaking Identification**

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USA  
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**Emergency Telephone Number**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis at: 1-609-443-2000 (USA) or +49 (0) 221 2923 2000 (EU)

Product\_Stewardship@elementis.com

**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This product is considered hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

**Label Elements****EMERGENCY OVERVIEW****Danger****Hazard Statements**

May cause cancer by inhalation  
Causes damage to organs through prolonged or repeated exposure  
May form combustible dust concentrations in air

**Appearance:** Powder**Physical state:** Solid**Odor:** Odourless**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components, or components with exposure limits (see section 8)

Components	CAS-No	Weight %
Crystalline Silica (Quartz)	14808-60-7	2.5 - 10 %

### 4. FIRST AID MEASURES

**FIRST AID MEASURES**

<b>General Advice</b>	Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye contact:</b>	Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Protection of first-aiders:</b>	Avoid contact with skin and eyes.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects**                      Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician**                                      Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Dry sand  
Alcohol-resistant foam  
Use water spray or fog; do not use straight streams

**Extinguishing media which must not be used for safety reasons**

None

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular

**Unusual Fire and Explosion Hazards:**

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

**Hazardous combustion products**

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

**Explosion data**

**Explosive properties:**

Dust may form explosive mixture in air

**Reactivity Hazard:**

None known

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**                                      Keep people away from and upwind of spill/leak. Use personal protective equipment.

**Other Information:**    See Section 12 for more information.

**Environmental precautions**

**Environmental precautions:**                                      Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Clean-up methods:**    Take precautionary measures against static discharges. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## **7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Handling:** Take precautionary measures against static discharges. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

**Additional Storage:** Not required under normal use

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Components	OSHA STEL	OSHA PEL	OSHA TWA	OEL - Long-term TWA
Crystalline Silica (Quartz)		0.05 mg/m <sup>3</sup> (respirable fraction)	0.1 MGM3 (respirable fraction)	

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Crystalline Silica (Quartz) 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>			50 mg/m <sup>3</sup> respirable dust

Components	WEEL Ceiling	WEEL TWA	ACGIH	WEEL STEL
Crystalline Silica (Quartz)			A2 Suspected Human Carcinogen	

**TLV/PEL:** Particles (insoluble or poorly soluble)  
Not Otherwise Specified [PNOS]

**OSHA TWA** 15 mg/m<sup>3</sup> (total particles)  
5 mg/m<sup>3</sup> (respirable particles)

**ACGIH TWA** 10 mg/m<sup>3</sup> (total particles)  
3 mg/m<sup>3</sup> (respirable particles)

**Appropriate engineering controls**

**Engineering Measures** Maintain adequate engineering controls and/or ventilation to keep hazardous ingredients below their statutory limits. Use an approved respirator whenever exposure limits are exceeded

**Individual protection measures, such as personal protective equipment**

**Eye protection** Safety glasses.

**Skin and body protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place

**Respiratory protection:** Effective dust mask.

**Hand protection** Protective gloves  
Neoprene gloves

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state:</b>	Solid
<b>Appearance:</b>	Powder
<b>Odor:</b>	Odourless
<b>Color:</b>	Cream white
<b>Odor Threshold</b>	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
<b>pH</b>	No data available	
<b>Melting point/range:</b>	No data available	
<b>Freezing point:</b>	No data available	
<b>Boiling Point/Range</b>	No data available	
<b>Flash Point</b>	Not applicable	
<b>Evaporation rate</b>	No data available	
<b>Explosion limits:</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Density:</b>	0.35 g/cm <sup>3</sup> (Bulk Density)	
<b>Water solubility</b>	Water insoluble	
<b>Solubility in other solvents</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Autoignition temperature</b>	Not self-igniting	
<b>Decomposition temperature</b>	No data available	
<b>Viscosity:</b>	No data available	
<b>Explosive properties:</b>	Dust may form explosive mixture in air	
<b>Oxidizing Properties</b>	No information available	

### Other Information

<b>Bulk Density</b>	No data available
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None known

### Conditions to Avoid

Heat, flames and sparks

### Incompatible Materials:

Oxidizing agent

### Hazardous Decomposition Products

None reasonably foreseeable

## 11. TOXICOLOGICAL INFORMATION

### Product Information

Data obtained on this product or a similar product

<b>LD50/Oral/Rat:</b>	> 5000 mg/kg
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**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available
<b>Eye contact:</b>	No data available
<b>Skin contact:</b>	No data available
<b>Ingestion</b>	No data available

**Component Information**

Components	LD50/Oral	LD50/Dermal	LC50/inhalation
Crystalline Silica (Quartz) 14808-60-7	500 mg/kg		

**Information on Toxicological Effects****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Corrosivity</b>	No data available
<b>Sensitization</b>	No data available
<b>Mutagenic effects</b>	No data available
<b>Carcinogenic effects:</b>	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Components	ACGIH	IARC	NTP	OSHA
Crystalline Silica (Quartz) 14808-60-7	A2 Suspected Human Carcinogen	Group 1- Carcinogenic to Humans	Group A - Known to be human carcinogens	Present

<b>Reproductive Toxicity:</b>	No data available
<b>Developmental Toxicity</b>	No data available

**Chronic Toxicity**

<b>Chronic toxicity:</b>	No data is available on the product itself
<b>Target Organ Effects:</b>	Respiratory system.
<b>Other Adverse Effects:</b>	No data available

**12. ECOLOGICAL INFORMATION****Product Information**

The data listed, below, is based on this or a similar product:

<b>LC50</b>	> 500 mg/L (rainbow trout) 300 mg/L (Daphnia magna; 48hr) > 230 mg/L (Daphnia magna; 96hr)
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**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and degradability:**

No data available

**Bioaccumulative potential:**

No data available

**Mobility**

No information available

**General Note:**

Do not allow product to reach ground water, water course or sewage system.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste from residues /unused products** Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**RCRA Hazardous Waste:**

**RCRA:** Not listed

**14. TRANSPORT INFORMATION**

**U.S. Department of Transportation Ground (49 CFR):** Not regulated

**International Air Transport Association (IATA)** Not regulated

**International Maritime Dangerous Goods (IMDG)** Not regulated

**Surface Shipments in Europe (ADR/RID):** Not regulated

**15. REGULATORY INFORMATION****International Inventories**

<b>USA (TSCA):</b>	Complies
<b>EU (EINECS):</b>	Complies
<b>EU REACH:</b>	Complies
<b>CANADA (DSL)</b>	Complies
<b>CANADA (NDSL):</b>	Not applicable
<b>JAPAN (ENCS):</b>	Complies
<b>PHILIPPINES (PICCS):</b>	Complies
<b>KOREA (KECL):</b>	Complies
<b>China (IECSC)</b>	Complies
<b>AUSTRALIA (AICS):</b>	Complies
<b>NEW ZEALAND (NZIoC):</b>	Complies
<b>TAIWAN (NECI):</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**NECI** - Taiwan National Existing Chemical Inventory

### Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Chronic Health Hazard

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **TSCA Section 12(b) Export Notification**

This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

### State Regulations (RTK)

#### **California Proposition 65**

This Product contains the following substance (s) known to the state of California to cause cancer and/or developmental effects.

Components	Carcinogen	Reproductive toxicity	No significant risk level
Crystalline Silica (Quartz) 14808-60-7	Listed		

### **16. OTHER INFORMATION**

#### **HMIS:**

**Health:** 1 \*  
**Flammability:** 1  
**Physical Hazard:** 0

**Previous Revision Date:** 17-Feb-2016

**Key/Legend:** N/A: Not applicable  
 N/D: Not determined  
 ppm: Parts per million  
 X: Listed

**Prepared by** Product Stewardship

The information provided in this Safety Data Sheet is correct to the best of ELEMENTIS' knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. ELEMENTIS specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product. All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use of this product. ELEMENTIS urges each customer or



recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

**End of Safety Data Sheet**