

Revision date: 30-Aug-2018

Supersedes: 18-Feb-2016

SDS Number: 12120

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Identifier****Product name:** BENGEL® 818**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**Elementis
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East Windsor, NJ 08512
USA
Tel: +1 609 443 2500
Fax: +1 609 443 2422Elementis UK Ltd.
c/o Elementis GmbH
Stölberger Str. 370
50933 Cologne, Germany
Tel. +49 (0) 221 2923 2000**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
May cause 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 % |
|-----------------------------|------------|------------|
| Confidential organoclay | - | 50 - 100 % |
| Crystalline Silica (Quartz) | 14808-60-7 | 2.5 - 10 % |

4. FIRST AID MEASURES

FIRST AID MEASURES**General Advice**

Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Skin contact:

Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.

Ingestion

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.

Protection of first-aiders:

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 (CO₂)
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 (CO₂)
Nitrogen oxides (NO_x)

Explosion data

Explosive properties:

Dust can form an 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: Do not create a powder cloud by using a brush or compressed air. Take precautionary measures against static discharges. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Clean contaminated surface thoroughly. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Take measures to prevent the build up of electrostatic charge. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing (dust, vapor, mist, gas). 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 ³ (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 ³ | | | 50 mg/m ³ 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/m³ (total dust)
5 mg/m³ (respirable fraction)
ACGIH TWA 10 mg/m³ (inhalable particles)
3 mg/m³ (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
Impervious butyl rubber gloves

Nitrile rubber

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | |
|------------------------|-------------------|
| Physical state: | Solid |
| Appearance: | Powder |
| Odor: | Odourless |
| Color: | Cream white |
| Odor Threshold | No data available |

| <u>Property</u> | <u>Values</u> | <u>Remarks / • Method</u> |
|---|------------------------|---------------------------|
| pH | No data available | |
| Melting point/range: | No data available | |
| Freezing point: | No data available | |
| Boiling Point/Range | No data available | |
| Flash Point | Not applicable | |
| Evaporation rate | No data available | |
| Explosion limits: | No data available | |
| Vapor pressure | No data available | |
| Vapor density | No data available | |
| Density: | 1.50 g/cm ³ | |
| Water solubility | Water insoluble | |
| Solubility in other solvents | No data available | |
| Partition coefficient: n-octanol/water | No data available | |
| Autoignition temperature | Not self-igniting | |
| Decomposition temperature | No data available | |
| Viscosity: | No data available | |

| | |
|------------------------------|---|
| Explosive properties: | Dust can form an explosive mixture in air |
| Oxidizing Properties | No information available |

Other Information

| | |
|---------------------|-------------------|
| Bulk Density | No data available |
|---------------------|-------------------|

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

No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|--|
| Product Information | No data is available on the product itself |
|----------------------------|--|

Information on likely routes of exposure

| | |
|----------------------|-------------------|
| Inhalation: | No data available |
| Eye contact: | No data available |
| Skin contact: | No data available |
| Ingestion | 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**

| | |
|------------------------------|---|
| Corrosivity | No data available |
| Sensitization | No data available |
| Mutagenic effects | No data available |
| Carcinogenic effects: | 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 |

| | |
|-------------------------------|-------------------|
| Reproductive Toxicity: | No data available |
| Developmental Toxicity | No data available |

Chronic Toxicity

| | |
|-------------------------------|--|
| Chronic toxicity: | No data is available on the product itself |
| Target Organ Effects: | Respiratory system. |
| Other Adverse Effects: | No data available |

12. ECOLOGICAL INFORMATION

Product Information There is no data available for this product

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**

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

This Material Safety Data Sheet contains changes from the previous version in Sections: 1-15
Previous Revision Date: 18-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