

Revision Date: 13-May-2011

Supersedes: 05-Dec-2007

MSDS Number: 10821

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name: BARAGEL® 20

Pure substance/preparation: Substance

Relevant identified uses of the substance or mixture and uses advised against

Product Use Description: Rheological additive

Details of the supplier of the safety data sheet

Supplier: Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Str. 370
50933 Cologne, Germany
Tel. +49 (0) 221 2923 2000

For further information, please contact

E-mail address: Product_stewardship@elementis.com

Emergency telephone number: SGS Emergency Response Number: + 32 (0)3 575 55 55

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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

Classification: Not dangerous

Label Elements

Other hazards

Powdered material may form explosive dust-air mixtures

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Name	EC-No.	CAS-No	Weight percent	REACH No.	Classification	EU - GHS Substance Classification
Crystalline silica (Quartz)	238-878-4	14808-60-7	< 3%		-	

For components with critical values that require monitoring at the workplace See Section 8.

4. FIRST AID MEASURES

Description of first aid measures

- General advice:** Immediate medical attention is required
- Eye contact:** Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- 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.
- Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation:** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Most important symptoms and effects, both acute and delayed

- Most Important Symptoms/Effects:** Difficulty in breathing

Indication of any immediate medical attention and special treatment needed

- Protection of first-aiders:** Avoid contact with skin and eyes

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

- Extinguishing media which must not be used for safety reasons:** none

Special hazards arising from the substance or mixture

Special Exposure Hazards Arising from the Substance or Preparation Itself, Combustion Products, Resulting Gases: None in particular.

Unusual Fire and Explosion Hazards: Excess dust dispersed in air represents an explosion hazard in the presence of electrical sparks and static discharges

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂), nitrogen oxides (NO_x), Gaseous hydrogen chloride (HCl)

Advice for fire-fighters

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.

Other information: See Section 12 for additional 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: Sweep up and shovel into suitable 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

Safe handling advice: Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

Specific end uses:

Exposure scenario: No information available

Other guidelines: No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

Occupational Exposure Limit for Hazardous Agents in the Workplace.

Chemical Name	EU TWA	EU STEL	OEL - Long-term TWA	OES - Short-term STEL
Crystalline silica (Quartz)	0.1 mg/m ³	0.1 mg/m ³		

Chemical Name	Belgium TWA	Belgium STEL	Austria MAK	Austria TRK
Crystalline silica (Quartz)	0.1 mg/m ³		0.15 mg/m ³	

Chemical Name	Denmark TLV	Denmark MAL	Finland TWA	Finland STEL
Crystalline silica (Quartz)	0.1 mg/m ³ 0.3 mg/m ³		0.5 mg/m ³	

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

Exposure controls

Engineering measures: Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use local exhaust ventilation if airborne concentrations are above recommended exposure limits.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practise.

Environmental exposure controls No information available

Personal protective equipment

Eye protection: Safety glasses

Hand protection: Protective gloves, Neoprene gloves

Respiratory protection: In the case of respirable dust and/or fumes, use self-contained breathing apparatus

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Colour: off-white

Odour:	odourless
Physical state:	solid
Flash point:	Not applicable
Flash Point Method:	Not applicable
Autoignition temperature:	Not selfigniting
Density:	1.7 g/cm ³ @ 20°C (ISO 2811-2)
Solubility:	Water insoluble

Other information

Explosive properties: Powdered material may form explosive dust-air mixtures

Solvent content:

Water content: Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

Reactivity: No dangerous reaction known under conditions of normal use

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions: No information available

Conditions to avoid

Conditions to avoid: Heat, flames and sparks

Incompatible materials

Materials to avoid: oxidising agents

Hazardous decomposition products

Hazardous decomposition products: No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

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

LC50/inhalation/4h/rat = > 12.6 mg/L (rat)
LD50/oral/rat = > 8000 mg/kg (rat)

Local effects

Skin irritation: Non-irritating to the skin.
Eye irritation: Contact with eyes may cause irritation.
Inhalation: May cause irritation of respiratory tract.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Component Information:

Chemical Name	LD50/Dermal/Rat	LD50/Oral/Rat	LC50/inhalation/4h/Rat
Crystalline silica (Quartz)	no data available	500 mg/kg	no data available

Chronic toxicity

Chronic toxicity: Long-term chronic toxicity studies to evaluate the carcinogenic potential of this product have not been conducted; See table and/or data, below, of individual components

Corrosivity: No information available.

mutagenic effects: No information available

Reproductive toxicity: No information available

Developmental Toxicity: No information available

Target organ effects: Respiratory system

Other Adverse Effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Product Information: no data available

Bioaccumulative potential: no data available

Persistence and degradability: no data available

Results of PBT and vPvB assessment

Terrestrial Toxicity: no data available

Environmental fate and pathways:

Mobility: Not applicable

Biodegradability: no data available

BOD/COD:

COD-value: no data available

BOD5-value: no data available

Behavior in sewage processing plants: In case of judicious use the product does not cause disturbances in water purification plants, according to experiences made so far.

Water Hazard Class (WGK): Generally not hazardous for water
Classification according VwVwS dated May 1999 (German legislation)

General Note: Not known to be hazardous to environment/water.

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 Local and National regulations

EWC waste disposal No: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Further Information: Waste codes should be assigned by the user based on the application for which the product was used

Contaminated packaging: Empty containers should be taken to local recyclers for disposal

14. TRANSPORT INFORMATION**Surface Shipments in Europe (ADR/RID):**

Proper shipping name: not regulated

International Air Transportation (ICAO/IATA):

Proper shipping name: not regulated

International Maritime Organization (IMO/IMDG):

Proper shipping name: not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA/ (USA)	Listed	EINECS/ (EU)	Listed
REACH	yes	DSL/ (CANADA)	Listed
NDSL/ (CANADA)	Not applicable	KECL (KOREA)	Listed
ENCS/ (JAPAN)	Not listed	PICCS/ (PHILLIPINES)	Listed
AICS/ (AUSTRALIA)	Listed	IECSC/ (CHINA)	Listed
HSNO/ New Zealand:	Listed	NECSI/ (TAIWAN)	Listed

Classification: Not dangerous

R -phrase(s):
none

S -phrase(s):
none

Restriction on marketing use: None known

Water Hazard Class (WGK): Generally not hazardous for water
Classification according VwVwS dated May 1999 (German legislation)

16. OTHER INFORMATION

GHS / CLP

Basis for Classification This substance is classified based on Directive 1272/2008/EC and its amendments (CLP regulation, GHS); See Section 2

Text of R Phrases mentioned in Section 2 to 15:

This Material Safety Data Sheet contains changes from the previous version in Sections: 1, 4, 5, 6, 7, 8, 9, 10, 11, 15

Previous Revision Date: 05-Dec-2007

Key/Legend:

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

Prepared by: Product Stewardship

The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. ELEMENTIS SPECIALTIES makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon.

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End of Safety Data Sheet