



MATERIAL SAFETY DATA SHEET

Revision date: 04-Sep-2007

Supersedes: 12-Mar-2001

MSDS Number: 10809

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

Product name: BARAGEL® 24

Product Description: Rheological additive

Company/Undertaking Identification

Elementis Specialties, Inc. 329 Wyckoffs Mill Road Hightstown, NJ 08520 (609) 443-2000	Elementis Specialties, Inc. p/a Elementis Service Centre NV Pegasus Park De Kleetlaan 12A - P.O. Box 3 B-1831 Diegem, Belgium +32 (0)2 790 76 00
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Emergency telephone number: CHEMTREC Emergency Response Number: 1-800-424-9300 (1-703-527-3887)
SGS Emergency Response Number: + 32 (0)3 575 55 55
Product Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Powder
Color: Off-white
Odor: Odorless

WARNING

May cause slight eye irritation.
May cause irritation of respiratory tract.
CONTAINS CRYSTALLINE SILICA (QUARTZ) WHICH MAY CAUSE CANCER.
Repeated and/or prolonged exposures may cause lung damage (Silicosis).
Risk of cancer depends on level and duration of exposure.

Potential health effects:

Eye contact: May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling.

Skin contact: Non-irritating to the skin.

Inhalation: May cause irritation of respiratory tract. Long term exposure to airborne concentrations may cause lung damage.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Principle routes of exposure: Inhalation, Skin, Ingestion
Target organ(s): Lungs

See Sections 11 & 12 for additional toxicological and ecological information

Environmental hazard: See Section 12, below

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS-No	Weight %
Crystalline silica (Quartz)	14808-60-7	< 3%

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

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. 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 with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

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.

5. FIRE-FIGHTING MEASURES

Flash Point: Not applicable

Autoignition temperature: Not selfigniting

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions

Reactivity Hazard: None known

Suitable extinguishing media: Water fog; foam; carbon dioxide; dry chemical

Hazardous combustion products: Combustion will produce carbon monoxide, carbon dioxide, and nitrogen oxides.

Special Fire Fighting Procedure: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
- Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- Clean-up Methods:** Sweep up and shovel into suitable containers for disposal. Clean spill area thoroughly. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

- Handling:** Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
- Storage:** Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded.

Personal Protective Equipment

- Eye protection:** Wear chemical goggles and/or full face shield as need.
- Skin and body protection:** Wear protective clothing and impervious gloves (natural rubber, neoprene) to avoid skin contact.
- Respiratory protection:** In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
- Hand protection:** Protective gloves
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

Exposure controls

Components	OSHA STEL	OSHA PEL	OSHA TWA	ACGIH STEL	ACGIH TWA
Crystalline silica (Quartz)		0.1 mg/m ³ (respirable fraction)	0.1 mg/m ³ (respirable fraction)		0.025 mg/m ³ (respirable fraction)

TLV/PEL: Nuisance Dust
OSHA TWA 15 mg/m³ (total dust)
 5 mg/m³ (respirable fraction)

ACGIH TWA 10 mg/m³ (total dust)
 3 mg/m³ (respirable fraction)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
 Color: Off-white
 Odor: Odorless
 Physical state: Solid
 Solubility in Water: Insoluble
 Specific gravity: 1.7
 Flash Point: Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions
 Conditions to avoid: Heat, flames and sparks
 Materials to avoid: Oxidizing agents
 Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)
 Possibility of Hazardous Reactions: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components	LC50/Inhalation/4h/Rat	LD50/Dermal/Rat	LD50/Oral/Rat
Crystalline silica (Quartz)	No data available	No data available	500 mg/kg

Product Information: The data listed, below, is based on this or a similar product:
 LD50/Oral/Rat: > 5000 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 diarrhea.
 Chronic toxicity: See table and/or data, below

Components	NTP	IARC	OSHA

Components	NTP	IARC	OSHA
Crystalline silica (Quartz)	Group 2A	Group 1- Carcinogenic to Humans	Present

Specific effects

Carcinogenic effects: Crystalline silica has been reviewed by IARC. IARC working group found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. Therefore, IARC working group has classified Crystalline Silica as carcinogenic to humans (Group 1).

Target organ(s): Lungs

12. ECOLOGICAL INFORMATION**Aquatic toxicity:**

Product Information: No data available

Persistence and degradability: No data available

Environmental Fate:

Mobility (soil/air/water): No data available

28-Day biodegradation: No data available

Bioaccumulative potential: No data available

Physical / Chemical: No data available

13. DISPOSAL CONSIDERATIONS

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.

RCRA Hazardous Waste

RCRA: Not listed

14. TRANSPORT INFORMATION**U.S. Department of Transportation Ground (49 CFR):**

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

Surface Shipments in Europe (ADR/RID):

Proper shipping name: Not regulated

15. REGULATORY INFORMATION**Heavy metals:**

Heavy metals content (ppm): Not applicable

International Inventories

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

U.S. Regulations**TSCA Section 12(b) Export Notification****SARA Title III:**

Section 302 EHS: None

Section 311/312: Chronic Health Hazard

Section 313: Not listed

California Proposition 65:

This Product contains the following Chemical(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)	Listed		

Canada

WHMIS hazard class:

D2A Possible, probable or known human carcinogen according to classifications by IARC or ACGIH.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS:

Health: 1 *
 Flammability: 0
 Reactivity: 0

Previous Revision Date: 12-Mar-2001

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. ELEMENTIS SPECIALTIES warrants only that its products conforms with their published specifications, and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.