



# MATERIAL SAFETY DATA SHEET

Revision date: 21-May-2008

Supersedes: New MSDS

MSDS Number: 12301

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

Product name: BENAQUA® 2100

Product Use 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: Free flowing powder  
 Color: Off-white  
 Odor: Odourless

### CAUTION

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

### 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.

**Routes of exposure:** Inhalation, Skin, Ingestion

**Target Organs:** None

**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 %
Starch	9005-25-8	50 - 60%

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:** Excess dust dispersed in air represents an explosion hazard in the presence of electrical sparks and static discharges .

**Reactivity Hazard:** None known

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

**Hazardous combustion products:** Carbon monoxide, carbon dioxide (CO<sub>2</sub>).

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

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
<b>Storage:</b>	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

<b>Engineering measures:</b>	Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded.
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### Personal Protective Equipment

<b>Eye protection:</b>	Wear face protection
<b>Skin and body protection:</b>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place
<b>Respiratory protection:</b>	In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
<b>Hand protection:</b>	Protective gloves
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice.

### Exposure controls

Components	OSHA STEL	OSHA PEL	OSHA TWA	ACGIH STEL	ACGIH TWA
Starch			5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Free flowing powder
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Off-white
Odor:	Odourless
Physical state:	Solid
Solubility:	Dispersible in water
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 (CO <sub>2</sub> )
Possibility of Hazardous Reactions:	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

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

**LD50/Oral/Rat:** > 5000 mg/kg (rat)

### Local effects

<b>Skin irritation:</b>	Non-irritating to the skin.
<b>Eye irritation:</b>	Contact with eyes may cause irritation.
<b>Inhalation:</b>	May cause irritation of respiratory tract.
<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic toxicity:</b>	See table and/or data, below

### Specific effects

<b>Carcinogenic effects:</b>	No classification data on the carcinogenic properties of this material is available from the IARC, NTP or OSHA
<b>Target Organs:</b>	None

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity:

**Product Information:** No data available

**Persistence and degradability:** No data available

**Environmental Fate and Pathways:**

**Mobility:** No data available

**Biodegradability:** 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. TRANSPORTATION 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

**Canada - Transportation of Dangerous Goods (TDG):**

**Proper shipping name:** Not regulated

### **15. REGULATORY INFORMATION**

**Heavy metals:**

**Heavy metals content (ppm):** Not applicable

**International Inventories**

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

**U.S. Regulations****TSCA Section 12(b) Export Notification****SARA Title III:****Section 302 EHS:** None**Section 311/312:** None**Section 313:** Not listed**California Prop. 65:**

Not listed

**Canada****WHMIS hazard class:** Non-controlled

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.

<b>16. OTHER INFORMATION</b>
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**HMIS:**

Health:	1
Flammability:	1
Reactivity:	0

**Previous Revision Date:** Not applicable**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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