



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

Revision date: 18-Dec-2014

Supersedes: 25-May-2012

SDS Number: 10791

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

### Product Identifier

Product name: BENTONE® 27

### 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 Specialties, Inc.  
469 Old Trenton Road  
East Windsor, NJ 08512  
USA  
Tel: +1 (609) 443-2000

Elementis UK Ltd.  
c/o Elementis GmbH  
Stolberger 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 Specialties at: 1-609-443-2000 (USA) or +(49)-221-2923-2000 (EU)

Product\_Stewardship@elementis.com

## 2. HAZARDS IDENTIFICATION

### **Classification**

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label Elements

#### EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance:** Powder

**Physical state:** Solid

**Odor:** Odourless

### Hazards not otherwise classified (HNOC)

Revision Number: 2

**Other Information**

May form combustible dust concentrations in air

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**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/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

**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:**

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 (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Gaseous hydrogen chloride (HCl)

**Explosion data****Explosive properties:**

Powdered material may form explosive dust-air mixtures

**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 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:** Do not create a powder cloud by using a brush or compressed air. Take precautionary measures against static discharges. Take up mechanically and collect in suitable container 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 precautionary measures against static discharges. Remove all sources of ignition. 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**

**Storage conditions** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store at room temperature in the original container.

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

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

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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

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

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

#### Appropriate engineering controls

**Engineering Measures** Use adequate local exhaust ventilation if airborne dusts, mists, or vapors will be generated

#### 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

**Physical state:** Solid  
**Appearance:** Powder  
**Odor:** Odourless  
**Color:** Light cream  
**Odor Threshold** 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>	LEL: 50 g/m <sup>3</sup>	estimated
<b>Vapor pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Density:</b>	1.8 g/cm <sup>3</sup>	
<b>Water solubility</b>	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>	Powdered material may form explosive dust-air mixtures	
<b>Oxidizing Properties</b>	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 agents

**Hazardous Decomposition Products**

None reasonably foreseeable

## 11. TOXICOLOGICAL INFORMATION

**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.

**Product Information**

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

**LD50/Oral/Rat:** > 20000 mg/kg

**Component Information**

No data available

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

<b>Corrosivity</b>	No information available.
<b>Sensitization</b>	No information available
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenic effects:</b>	No classification data on the carcinogenic properties of this material is available from the IARC, NTP or OSHA
<b>Reproductive Toxicity:</b>	No information available
<b>Developmental Toxicity</b>	No information available.

**Chronic Toxicity**

<b>Chronic toxicity:</b>	No data is available on the product itself
<b>Other Adverse Effects:</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### Product Information

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

<b>LC50</b>	> 30000 mg/L (Acartia Tonsa)
<b>EC50/96hr/48hr/24hr:</b>	> 10000 mg/L (Skeletonema Costatum)

### 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

### Biodegradability:

Insignificant degradability

### 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 Local and National regulations

**Contaminated packaging** Empty containers should be taken for local recycling, recovery or waste disposal

### RCRA Hazardous Waste:

**RCRA:** Not listed

## 14. TRANSPORT INFORMATION

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

**International Air Transportation (ICAO/IATA):** Not regulated

**International Maritime Organization (IMO/IMDG):** Not regulated

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

## 15. REGULATORY INFORMATION

### International Inventories

<b>USA (TSCA):</b>	In Compliance
<b>EU (EINECS):</b>	In Compliance
<b>REACH</b>	In Compliance

<b>CANADA (DSL)</b>	In Compliance
<b>CANADA (NDSL):</b>	Not applicable
<b>JAPAN (ENCS):</b>	In Compliance
<b>PHILIPPINES (PICCS):</b>	In Compliance
<b>KOREA (KECL):</b>	In Compliance
<b>China (IECSC)</b>	In Compliance
<b>AUSTRALIA (AICS):</b>	In Compliance
<b>NEW ZEALAND (NZIoC):</b>	In Compliance
<b>TAIWAN (NECSI):</b>	In Compliance

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**REACH** - Registration, Evaluation, Authorisation and Restriction of Chemicals  
**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  
**NECSI** - Taiwan Inventory of Chemicals

**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**

None

**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 does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

**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.

**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 - 16

**Previous Revision Date:** 25-May-2012

**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**