



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

Revision date: 08-Feb-2015

Supersedes: 06-Sep-2013

SDS Number: 12294

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

### Product Identifier

Product name: BENTONE® DY-CE

### 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity

Category 1A

### Label Elements

### **EMERGENCY OVERVIEW**

#### **Danger**

#### **Hazard Statements**

May cause cancer by inhalation  
Causes damage to organs through prolonged or repeated exposure

**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

**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**

May form combustible dust concentrations in air

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Components	CAS-No	Weight %
Bentonite	1302-78-9	50 - 100 %
Feldspar	68476-25-5	< 2.5 %
Mica	12001-26-2	< 2.5 %
Silica, cristobalite	14464-46-1	< 2.5 %
Crystalline Silica (Quartz)	14808-60-7	< 2.5 %

**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/Effects:** None.

**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>)

**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:** Take precautionary measures against static discharges. Shovel into suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. 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 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
Mica			3 mg/m <sup>3</sup>	
Silica, cristobalite			0.05 mg/m <sup>3</sup>	
Crystalline Silica (Quartz)		0.1 mg/m <sup>3</sup> (respirable fraction)	0.1 MGM3 (respirable fraction)	

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Bentonite 1302-78-9	TWA: 1 mg/m <sup>3</sup>			
Mica 12001-26-2	TWA: 3 mg/m <sup>3</sup>			1500 mg/m <sup>3</sup>
Silica, cristobalite 14464-46-1	TWA: 0.025 mg/m <sup>3</sup>			25 mg/m <sup>3</sup> respirable dust
Crystalline Silica (Quartz) 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>			50 mg/m <sup>3</sup> respirable dust

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

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

**ACGIH TWA** 10 mg/m<sup>3</sup> (inhalable particles)  
3 mg/m<sup>3</sup> (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.

<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>	Effective dust mask.
<b>Hand protection</b>	Protective gloves Neoprene gloves
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state:</b>	Solid
<b>Appearance:</b>	Powder
<b>Odor:</b>	Odourless
<b>Color:</b>	Off-white
<b>Odor Threshold</b>	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>	Not applicable	
<b>Flash Point</b>	Not applicable	
<b>Evaporation rate</b>	Not applicable	
<b>Explosion limits:</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Density:</b>	No data available	
<b>Water solubility</b>	Water 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

<b>Bulk Density</b>	~ 0.65 g/cm <sup>3</sup>
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## 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** No data available**Component Information** No data available

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**

<b>Corrosivity</b>	None.
<b>Sensitization</b>	No sensitizing effects known
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenic effects:</b>	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 information available**Developmental Toxicity** No information available.**Chronic Toxicity****Chronic toxicity:** No data is available on the product itself**Other Adverse Effects:** No information available.**12. ECOLOGICAL INFORMATION****Product Information** No data available**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 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

Components	EPCRA (SARA Title III) Section 313 Toxic Chemical
Feldspar 68476-25-5	Listed

#### **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		

#### **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:** 1  
**Physical Hazard:** 0

**This Material Safety Data Sheet** 1-16

**contains changes from the previous version in Sections:**

**Previous Revision Date:** 06-Sep-2013



**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**