SAFETY DATA SHEET
According to Canada WHMIS 2015 Standards

Revision date: 27-Apr-2016  Supercedes: 09-Sep-2015  SDS 10841

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

<table>
<thead>
<tr>
<th><strong>Product Identifier</strong></th>
<th><strong>BENTONE® MA</strong></th>
</tr>
</thead>
</table>

**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**

<table>
<thead>
<tr>
<th>Elementis Specialties, Inc.</th>
<th>Elementis UK Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>469 Old Trenton Road</td>
<td>c/o Elementis GmbH</td>
</tr>
<tr>
<td>East Windsor, NJ 08512 US</td>
<td>Stolberger Str. 370</td>
</tr>
<tr>
<td>USA</td>
<td>50933 Cologne, Germany</td>
</tr>
<tr>
<td>Tel: +1 609 443 2500</td>
<td>Tel: +49 (0) 221 2923 2000</td>
</tr>
<tr>
<td>Fax: +1 609 443 2422</td>
<td></td>
</tr>
</tbody>
</table>

**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 (0) 221 2923 2000 (EU)

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

**Classification**

**Canada HPR Regulatory Status**

This product is not considered hazardous as defined under Canada Hazardous Products Regulations (HPR)

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

**Label Elements**

<table>
<thead>
<tr>
<th><strong>Appearance:</strong> Powder</th>
<th><strong>Physical state:</strong> Solid</th>
<th><strong>Odor:</strong> Odourless</th>
</tr>
</thead>
</table>

**EMERGENCY OVERVIEW**

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

**Hazards not otherwise classified (HNOC)**

**Other Information**

__________________________________________

Revision Number: 1
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

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 and 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 (CO2)
Dry powder
Dry sand
Alcohol-resistant foam
Use water spray or fog; do not use straight streams

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:
May emit toxic fumes under fire conditions

Hazardous combustion products
Carbon monoxide
Carbon dioxide (CO2)

Explosion data

Explosive properties:
Not explosive
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 more 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 up mechanically, placing in appropriate containers 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:**
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. 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**
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]

**OSHA TWA**
10 mg/m³ (inhalable particles)
5 mg/m³ (respirable particles)

**ACGIH TWA**
10 mg/m³ (inhalable particles)
3 mg/m³ (respirable particles)

**Appropriate engineering controls**

**Engineering Measures**
Use only with adequate ventilation

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Odourless</td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Off-white</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

Physical state: Solid
Appearance: Powder
Odor: Odourless
Color: Off-white
Odor Threshold: No data available

Property | Values | Remarks / Method |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point/range:</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Freezing point:</td>
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<td></td>
</tr>
<tr>
<td>Boiling Point/Range</td>
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<td></td>
</tr>
<tr>
<td>Flash Point</td>
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<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
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<tr>
<td>Explosion limits</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
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<td></td>
</tr>
<tr>
<td>Vapor density</td>
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<tr>
<td>Density:</td>
<td>2.6 g/cm³</td>
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<tr>
<td>Water solubility</td>
<td>Insoluble</td>
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<tr>
<td>Solubility in other solvents</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not self-igniting</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
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</tr>
<tr>
<td>Viscosity:</td>
<td>No data available</td>
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<tr>
<td>Explosive properties:</td>
<td>Not explosive</td>
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<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

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 agent

Hazardous Decomposition Products
None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- **Inhalation:** No data available
- **Eye contact:** No data available
- **Skin contact:** No data available
- **Ingestion**

Product Information

- **LD50/Oral/Rat:** > 5000 mg/kg

Component Information

Information on Toxicological Effects

- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
  - **Corrosivity:** No data available
  - **Sensitization:** No data available
  - **Mutagenic effects:** No data available
  - **Carcinogenic effects:** There are no known carcinogenic chemicals in this product
  - **Reproductive Toxicity:** No data available
  - **Developmental Toxicity**
  - **Chronic Toxicity**
    - **Chronic toxicity:** No data is available on the product itself
    - **Other Adverse Effects:** No data available

12. ECOLOGICAL INFORMATION

Product Information

- There is no data available for this product

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:**

- Not known to be hazardous to environment/water.
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 federal, state and local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

RCRA Hazardous Waste:

RCRA: Not listed

14. TRANSPORT INFORMATION

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

International Air Transport Association (IATA):
Not regulated

International Maritime Dangerous Goods (IMDG):
Not regulated

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

Canada - Transportation of Dangerous Goods (TDG):
Not regulated

15. REGULATORY INFORMATION

International Inventories

USA (TSCA): Complies
EU (EINECS): Complies
REACH: Complies
CANADA (DSL): Complies
CANADA (NDSL): Not applicable
JAPAN (ENCS): Complies
PHILIPPINES (PICCS): Complies
KOREA (KECL): Complies
China (IECSC): Complies
AUSTRALIA (AICS): Complies
NEW ZEALAND (NZIoC): Complies
TAIWAN (NECI): Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
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
NECI - Taiwan National Existing Chemical Inventory

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

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
</tr>
<tr>
<td>Flammability:</td>
<td>0</td>
</tr>
<tr>
<td>Physical Hazard:</td>
<td>0</td>
</tr>
</tbody>
</table>

Previous Revision Date: 09-Sep-2015

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