



SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

Revision date: 18-Dec-2014

Supersedes: 25-May-2012

SDS Number: 10796

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

Product Identifier

Product name: BENTONE® 38

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)

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**

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: 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

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. Emits toxic fumes under fire conditions

Hazardous combustion products:

Carbon monoxide
 Carbon dioxide (CO₂)
 Nitrogen oxides (NO_x)
 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 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. 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 15 mg/m³ (total dust)
5.0 mg/m³ (respirable fraction)

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

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>
pH	No data available	
Melting point/range:	Not Applicable	
Freezing point:	Not applicable	
Boiling Point/Range	Not applicable	
Flash Point	Not applicable	
Evaporation rate	Not applicable	
Explosion limits:	LEL: 52.6 g/m ³	
Vapor pressure	No data available	
Vapor density	No data available	
Density:	1.7 g/cm ³	
Water solubility	insoluble	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature	Not self-igniting	
Decomposition temperature	No data available	
Viscosity:	No data available	

Explosive properties: Powdered material may form explosive dust-air mixtures
Oxidizing Properties 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

Inhalation:	No data available.
Eye contact:	No data available.
Skin contact:	No data available.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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**

Corrosivity	None.
Sensitization	No sensitizing effects known
Mutagenic effects	No information available.
Carcinogenic effects:	This product contains a known carcinogen at < 0.1%
Reproductive Toxicity:	No information available
Developmental Toxicity	No information available.

Chronic Toxicity

Chronic toxicity:	No data is available on the product itself
Target Organ Effects:	None known.
Other Adverse Effects:	No information available.

12. ECOLOGICAL INFORMATION

Product Information

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

LC50	> 30000 mg/l (Acartia tonsa)
EC50/96hr/48hr/24hr:	> 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

USA (TSCA):	In Compliance
EU (EINECS):	In Compliance
REACH	In Compliance

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