



SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

Revision date: 18-Dec-2014

Supersedes: 08-Feb-2012

SDS Number: 10793

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

Product Identifier

Product name: BENTONE® 34

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 %
Crystalline Silica (Quartz)	14808-60-7	< 3.0 %

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 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 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 dust/fume/gas/mist/vapours/spray. 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

Components	OSHA STEL	OSHA PEL	OSHA TWA	OEL - Long-term TWA
Crystalline Silica (Quartz)		0.1 mg/m ³ (respirable fraction)	0.1 MGM3 (respirable fraction)	

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Crystalline Silica (Quartz) 14808-60-7	TWA: 0.025 mg/m ³			50 mg/m ³ respirable dust

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 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.

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, Impervious butyl rubber gloves, Nitrile rubber

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:	Off-white
Odor Threshold	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
pH	No data available	
Melting point/range:	No data available	
Freezing point:	No data available	
Boiling Point/Range	No data available	
Flash Point	Not applicable	
Evaporation rate	No data available	
Explosion limits:	LEL: 74 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
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10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use

Chemical Stability

Stable at normal 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: May cause irritation of respiratory tract.
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:

LC50/inhalation/4h/rat: > 12.6 mg/L/4 hr
LD50/Oral/Rat: > 8000 mg/kg

Component Information

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

Corrosivity None.
Sensitization No sensitizing effects known
Mutagenic effects No information available.
Carcinogenic effects: 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 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:

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 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

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.

TSCA Section 5(a)(2) Proposed Significant New Use Rules (SNURs): Not applicable
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: 08-Feb-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