



MATERIAL SAFETY DATA SHEET

Revision date: 17-Sep-2007

Supersedes: 30-Oct-2002

MSDS Number: 10791

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

Product name: BENTONE® 27

Product Use Description: Organophilic clay

Company/Undertaking Identification	Elementis Specialties, Inc.	Elementis Specialties, Inc.
	329 Wyckoffs Mill Road Hightstown, NJ 08520 (609) 443-2000	p/a Elementis Service Centre NV Pegasus Park De Kleetlaan 12A - P.O. Box 3 B-1831 Diegem, Belgium +32 (0)2 790 76 00

Emergency telephone number: CHEMTREC Emergency Response Number: 1-800-424-9300 (1-703-527-3887)

SGS Emergency Response Number: + 32 (0)3 575 55 55

Product Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Powder
 Color: Light cream
 Odor: Odourless

CAUTION

May cause slight eye irritation
 May cause irritation of respiratory tract
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Potential health effects:

Eye contact: May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling.

Skin contact: Non-irritating to the skin.

Inhalation: May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Routes of exposure: Inhalation, Skin, Ingestion

Target Organs: Respiratory system

See Sections 11 & 12 for additional toxicological and ecological information

Environmental hazard: See Section 12, below

3. COMPOSITION/INFORMATION ON INGREDIENTS

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. 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 with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point: Not applicable

Autoignition temperature: Not selfigniting

Explosive properties: LEL: est. 50 g/m³

Unusual Fire and Explosion Hazards: Excess dust dispersed in air represents an explosion hazard in the presence of electrical sparks and static discharges .

Reactivity Hazard: None known

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Hazardous combustion products: Carbon monoxide, carbon dioxide (CO₂), Nitrogen oxides (NO_x).

Special Fire Fighting Procedure: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Clean-up methods:	Sweep up and shovel into suitable containers for disposal. Clean spill area thoroughly. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Handling:	Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
Storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded.
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Personal Protective Equipment

Eye protection:	Wear face protection
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:	In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
Hand protection:	Protective gloves
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

Exposure controls

TLV/PEL	Particles (insoluble or poorly soluble) Not Otherwise Specified [PNOS]
OSHA TWA	10 mg/m ³ (total particulates) 5 mg/m ³ (respirable particles)
ACGIH TWA	10 mg/m ³ (total particulates) 3 mg/m ³ (respirable particles)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Color:	Light cream
Odor:	Odourless
Physical state:	Solid
Solubility:	Water insoluble
Specific Gravity:	1.2
Density:	1.8 g/cm ³
Flash Point:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions
Conditions to avoid:	Heat, flames and sparks
Materials to avoid:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x)
Possibility of Hazardous Reactions:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

LD50/Oral/Rat: > 20,000 mg/kg (rat)

Local effects

Skin irritation:	Non-irritating to the skin.
Eye irritation:	Contact with eyes may cause irritation.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic toxicity:	See table and/or data, below

Specific effects

Carcinogenic effects:	No classification data on the carcinogenic properties of this material is available from the IARC, NTP or OSHA
Target Organs:	Respiratory system

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

Product Information:	The data listed, below, is based on this or a similar product:
LC50/96hr/48hr/24hr	> 30,000 mg/L (Acartia Tonsa)
EC50/96hr/48hr/24hr	> 10,000 (Skeletonema Costatum)
Persistence and degradability:	No data available

Environmental Fate and Pathways:

Mobility:	No data available
Biodegradability:	Insignificant degradability
Bioaccumulative potential:	No data available
Physical / Chemical:	No data available

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 Local and National regulations.

RCRA Hazardous Waste:

RCRA: Not listed

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated

International Maritime Organization (IMO/IMDG):

Proper shipping name: Not regulated

Surface Shipments in Europe (ADR/RID):

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

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Heavy metals:

Heavy metals content (ppm): Not applicable

International Inventories

TSCA/ (USA)	Listed	EINECS/ (EU)	Listed
DSL/ (CANADA)	Listed	NDSL/ (CANADA)	Not applicable
ENCS/ (JAPAN)	Listed	IECSC/ (CHINA)	Listed
PICCS/ (PHILLIPINES)	Listed	KECL (KOREA)	Listed
AICS/ (AUSTRALIA)	Listed	HSNO/ New Zealand:	Listed

U.S. Regulations

TSCA Section 12(b) Export Notification

SARA Title III:

Section 302 EHS: None

Section 311/312: None

Section 313: Not listed

California Prop. 65:

Not listed

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
Reactivity:	0

Previous Revision Date: 30-Oct-2002

Key/Legend:

N/A: Not applicable

N/D: Not determined

ppm: Parts per million

X: Listed

Prepared by: Product Stewardship

The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. ELEMENTIS SPECIALTIES makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon.

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