

## SAFETY DATA SHEET

Preparation Date: 04/15/2015

Revision Date: 12/01/2016

Revision Number: G3

### 1. IDENTIFICATION

**Product identifier**

**Product code:** BE125  
**Product Name:** BENTONITE, POWDER, NF

**Other means of identification**

**Synonyms:** No information available  
**CAS #:** 1302-78-9  
**RTECS #** CT9450000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000.

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

**Label elements**

**Danger**

**Hazard statements**

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

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

**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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Bentonite	1302-78-9	90
Quartz (Crystalline Silica)	14808-60-7	10

**4. FIRST AID MEASURES****First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:**

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed****Symptoms**

May cause eye/skin/respiratory tract irritation. May cause coughing and shortness of

breath. Sneezing. May cause pulmonary edema. May cause silicosis.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:** No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Hygroscopic.

**Incompatible Materials:**

Strong acids

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Bentonite	1302-78-9	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	50 µg/m <sup>3</sup> TWA (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	0.05 mg/m <sup>3</sup> TWA	0.025 mg/m <sup>3</sup> TWA respirable particulate matter	None

**Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Bentonite	1302-78-9	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	0.025 mg/m <sup>3</sup> TWA respirable particulate	0.025 mg/m <sup>3</sup> TWA respirable	0.10 mg/m <sup>3</sup> TWA respirable Silica, crystalline	0.1 mg/m <sup>3</sup> TWA EV respirable dust

**Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Bentonite	1302-78-9	None	None
Quartz (Crystalline Silica)	14808-60-7	0.1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:**

Goggles or Safety glasses with side-shields

**Skin and body protection:** Chemical resistant apron. Gloves. Long sleeved clothing.

**Respiratory protection:** Wear respirator with dust filter.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Solid	<b>Appearance:</b> Powder.	<b>Color:</b> Beige. Light gray. Tan.
<b>Odor:</b> Odorless.	<b>Taste</b> Tasteless.	<b>Formula:</b> No information available
<b>Molecular/Formula weight:</b> No information available	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> 2.5-2.6	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Insoluble in acids Insoluble in cold water Insoluble in common organic solvents Insoluble in hot water In the presence of water, it forms a translucent and viscous suspension	

## 10. STABILITY AND REACTIVITY

**Reactivity**

Reactive with strong acids

**Chemical stability**

**Stability:** Hygroscopic. Stable at normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Exposure to moisture. Incompatible materials.

**Incompatible Materials:** Strong acids

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**Hazardous decomposition products:** No information available.

**Other Information Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Ingestion. Inhalation.

### Acute Toxicity

#### Component Information

Bentonite	
CAS-No.	1302-78-9
LD50/oral/rat = > 5000 mg/kg Oral LD50 Rat	
LD50/oral/mouse = No information available	
LD50/dermal/rabbit = No information available	
LD50/dermal/rat = No information available	
LC50/inhalation/rat = No information available	
LC50/inhalation/mouse = No information available	
Other LD50 or LC50 information = No information available	
Quartz (Crystalline Silica)	
CAS-No.	14808-60-7
LD50/oral/rat = 500 mg/kg Oral LD50 Rat (from EU Commission - EU Chemicals Bureau - particle size was 10-20 um	
LD50/oral/mouse = No information available	
LD50/dermal/rabbit = No information available	
LD50/dermal/rat = No information available	
LC50/inhalation/rat = No information available	
LC50/inhalation/mouse = No information available	
Other LD50 or LC50 information = No information available	

#### Product Information

LD50/oral/rat =  
VALUE- Acute Tox Oral = > 5000 mg/kg

LD50/oral/mouse =  
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit  
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat  
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat  
VALUE-Vapor = No information available

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VALUE-Gas = No information available  
 VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available  
 VALUE - Gas = No information available  
 VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation.  
**Eye Contact:** May cause eye irritation.  
**Inhalation** May cause respiratory tract irritation. Symptoms may include coughing and sneezing. May cause dyspnea (difficulty breathing or shortness of breath). May cause delayed pulmonary edema.  
**Ingestion** Expected low hazard.  
**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Inhalation: Prolonged or repeated inhalation may cause pneumoconiosis, bronchospasm, asthma. Symptoms may include coughing, wheezing, shortness of breath, difficulty breathing, reduced lung function, repeated non-specific chest illness. This product contains a small amount of naturally occurring quartz (crystalline silica). Chronic inhalation of quartz (crystalline silica) can cause silicosis (a specific form of pneumoconiosis resulting from inhalation of crystalline silica), and may also affect blood, and the liver. Chronic inhalation of quartz (crystalline silica) may cause cancer. Risk of cancer depends upon duration and level of exposure.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** May cause cancer based on animal test data.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Bentonite	1302-78-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Quartz (Crystalline Silica)	14808-60-7	Group 1 (Carcinogenic to Humans)- Monograph 100C [2012] Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources Monograph 68 [1997]	A2 Suspected Human Carcinogen	Known Human Carcinogen Silica, crystalline (respirable size)	Present	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity** No data is available  
**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.  
**Target Organs:** Lungs. Respiratory system.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.  
*Bentonite - 1302-78-9*  
**Freshwater Fish Species Data:** 8.0-19.0 g/L LC50 *Salmo gairdneri* 96 h 1  
19000 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1  
**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available.  
**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Bentonite	1302-78-9	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class** No information available  
**Packing group:** No information available

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**Emergency Response Guide Number** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

**TDG (Canada)**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No Information available  
**Description:** No information available

**ADR**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**IMO / IMDG**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No information available

**RID**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions** No information available

## 15. REGULATORY INFORMATION

### International Inventories

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Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Bentonite	1302-78-9	Present	Present KE-02119	Present	Not present	Present	Present	Present 215-108-5
Quartz (Crystalline Silica)	14808-60-7	Present	Present KE-29983	Present	Present (1)-548	Present	Present	Present 238-878-4

## U.S. Regulations

### Bentonite

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1155

**FDA - 21 CFR - Total Food Additives** 175.105 175.300 176.170 178.3297 184.1155

### Quartz (Crystalline Silica)

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 1660

**Pennsylvania RTK:** Present

**Minnesota - Hazardous Substance List:** Present

## California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Bentonite	1302-78-9	Not Listed	Not Listed	Not Listed	Not Listed
Quartz (Crystalline Silica)	14808-60-7	carcinogen (listed as Silica, crystalline (airborne particles of respirable size))	Not Listed	Not Listed	Not Listed

## CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Bentonite	1302-78-9	None	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	None	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Bentonite	1302-78-9	Not Applicable	Not Applicable
Quartz (Crystalline Silica)	14808-60-7	Not Applicable	Not Applicable

## Canada

### WHMIS hazard class:

D2A Very toxic materials

### Components

Bentonite

Quartz (Crystalline Silica)

### WHIMHAZ

D2A

D2A In certain cases, this classification does not apply.

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For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Quartz (Crystalline Silica)	1 %

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Bentonite	1302-78-9	Present	Not Listed
Quartz (Crystalline Silica)	14808-60-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Bentonite	1302-78-9	Not listed
Quartz (Crystalline Silica)	14808-60-7	Not listed

  

Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Bentonite	1302-78-9	Not listed
Quartz (Crystalline Silica)	14808-60-7	Not listed

**EU Classification**

**R-phrase(s)**

not determined (not applicable)

**S -phrase(s)**

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Bentonite	1302-78-9		No information	
Quartz (Crystalline Silica)	14808-60-7		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

None.

**16. OTHER INFORMATION**

**Preparation Date:** 04/15/2015  
**Revision Date:** 12/01/2016  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be

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**End of Safety Data Sheet**