

# **SAFETY DATA SHEET**

Product Trade Name: BETTER WAY ORIGINAL FRESH SCENT

Revision Date: 10-Jun-2015 Revision Number: 5

# 1. Identification

1.1. Product Identifier

Product Trade Name: BETTER WAY ORIGINAL FRESH SCENT

Synonyms: None
Chemical Family: Mineral
Internal ID Code HM007970

1.2 Recommended use and restrictions on use

Application: Cat litter

Uses Advised Against No information available

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier BENTONITE Performance Minerals LLC

3000 N Sam Houston Parkway East

Houston, TX 77032

Telephone: (281) 871-7900

Fax: (281) 871-7940

Emergency Telephone: (281) 575-5000

Prepared By Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number (281) 575-5000

# 2. Hazard(s) Identification

### 2.1 Classification in accordance with paragraph (d) of §1910.1200

Carcinogenicity	Category 1A - H350
Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - H372

#### 2.2. Label Elements

**Hazard Pictograms** 



Signal Word Danger

Hazard Statements H350 - May cause cancer by inhalation

H372 - Causes damage to organs through prolonged or repeated exposure if

Revision Date: 10-Jun-2015

inhaled

**Precautionary Statements** 

**Prevention** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical attention/advice if you feel unwell

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

Contains

SubstancesCAS NumberCrystalline silica, quartz14808-60-7Crystalline silica, cristobalite14464-46-1Crystalline silica, tridymite15468-32-3

# 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Crystalline silica, quartz	14808-60-7	1 - 5%	Carc. 1A (H350) STOT RE 1 (H372)
Crystalline silica, cristobalite	14464-46-1	0.1 - 1%	Carc. 1A (H350) STOT RE 1 (H372)
Crystalline silica, tridymite	15468-32-3	0.1 - 1%	Carc. 1A (H350) STOT RE 1 (H372)

The exact percentage (concentration) of the composition has been withheld as proprietary.

# 4. First-Aid Measures

#### 4.1. Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

Revision Date: 10-Jun-2015

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

### 4.2 Most important symptoms/effects, acute and delayed

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. Fire-fighting measures

# 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

All standard fire fighting media

#### Extinguishing media which must not be used for safety reasons

None known.

# 5.2 Specific hazards arising from the substance or mixture

# **Special Exposure Hazards**

None anticipated

# 5.3 Special protective equipment and precautions for fire-fighters

### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 8 for additional information

## 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

### 6.3. Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

# 7. Handling and storage

# 7.1. Precautions for Safe Handling

# **Handling Precautions**

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

## **Storage Information**

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

# 8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Crystalline silica, quartz		TWA: 10 mg/m³ %SiO2 + 2	TWA: 0.025 mg/m <sup>3</sup>
Crystalline silica, cristobalite	14464-46-1	TWA: 1/2 x 10 mg/m <sup>3</sup> %SiO2 + 2	TWA: 0.025 mg/m <sup>3</sup>
Crystalline silica, tridymite	15468-32-3	TWA: 1/2 x <u>10 mg/m</u> <sup>3</sup> _ %SiO2 + 2	TWA: 0.05 mg/m <sup>3</sup>

8.2 Appropriate engineering controls

Use approved industrial ventilation and local exhaust as required to maintain **Engineering Controls** 

exposures below applicable exposure limits.

8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures,

the selection and proper use of personal protective equipment should be

determined by an industrial hygienist or other qualified professional based on the

specific application of this product.

Not normally needed. But if significant exposures are possible then the following **Respiratory Protection** 

respirator is recommended:

Dust/mist respirator. (N95, P2/P3) Normal work gloves.

**Hand Protection** 

**Skin Protection** Wear clothing appropriate for the work environment. Dusty clothing should be

laundered before reuse. Use precautionary measures to avoid creating dust when

removing or laundering clothing.

Wear safety glasses or goggles to protect against exposure. **Eye Protection** 

**Other Precautions** None known.

# 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Solid Color: Various

Odor: Fragrant Odor No information available

Threshold:

**Property** Values

Remarks/ - Method

8-10 pH:

Freezing Point/Range No data available No data available **Melting Point/Range Boiling Point/Range** No data available Flash Point No data available Flammability (solid, gas) No data available upper flammability limit No data available

lower flammability limit No data available No data available **Evaporation rate Vapor Pressure** No data available **Vapor Density** No data available

**Specific Gravity** 2.65

**Water Solubility** Insoluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water **Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available **Viscosity** No information available **Explosive Properties Oxidizing Properties** No information available

9.2. Other information

**VOC Content (%)** No data available

# 10. Stability and Reactivity

#### 10.1. Reactivity

Not expected to be reactive.

# 10.2. Chemical Stability

Stable

### 10.3. Possibility of Hazardous Reactions

Will Not Occur

### 10.4. Conditions to Avoid

None anticipated

#### 10.5. Incompatible Materials

Hydrofluoric acid.

#### 10.6. Hazardous Decomposition Products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

# 11. Toxicological Information

## 11.1 Information on likely routes of exposure

**Principle Route of Exposure** Eye or skin contact, inhalation.

# 11.2 Symptoms related to the physical, chemical and toxicological characteristics

### **Acute Toxicity** Inhalation

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity"

subsection below).

**Eve Contact** May cause mechanical irritation to eve. **Skin Contact** May cause mechanical skin irritation.

May cause abdominal pain, vomiting, nausea, and diarrhea. Ingestion

Chronic Effects/Carcinogenicity Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Revision Date: 10-Jun-2015

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hydienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

# 11.3 Toxicity data

Toxicology data for the components

Toxicology data for the components				
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Crystalline silica, quartz	14808-60-7	>15,000 mg/kg (Human)	No data available	No data available
Crystalline silica,	14464-46-1	>15,000 mg/kg (Human)	No data available	No data available
cristobalite				
Crystalline silica,	15468-32-3	>15,000 mg/kg (Human)	No data available	No data available
tridymite				

Substances	CAS Number	Skin corrosion/irritation
Crystalline silica, quartz	14808-60-7	Non-irritating to the skin
Crystalline silica, cristobalite	14464-46-1	Non-irritating to the skin
Crystalline silica, tridymite	15468-32-3	Non-irritating to the skin

Substances	CAS Number	Eye damage/irritation
Crystalline silica, quartz	14808-60-7	Mechanical irritation of the eyes is possible.
Crystalline silica, cristobalite	14464-46-1	Mechanical irritation of the eyes is possible.
Crystalline silica, tridymite	15468-32-3	Mechanical irritation of the eyes is possible.

Substances	CAS Number	Skin Sensitization
Crystalline silica, quartz	14808-60-7	No information available.
Crystalline silica, cristobalite	14464-46-1	No information available
Crystalline silica, tridymite	15468-32-3	No information available

Substances	CAS Number	Respiratory Sensitization
Crystalline silica, quartz	14808-60-7	No information available
Crystalline silica, cristobalite	14464-46-1	No information available
Crystalline silica, tridymite	15468-32-3	No information available

Substances	CAS Number	Mutagenic Effects
Crystalline silica, quartz	14808-60-7	Not regarded as mutagenic.
Crystalline silica, cristobalite	14464-46-1	Not regarded as mutagenic.
Crystalline silica, tridymite	15468-32-3	Not regarded as mutagenic.

Substances	CAS Number	Carcinogenic Effects
Crystalline silica, quartz		Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury.
Crystalline silica, cristobalite		Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury.
Crystalline silica, tridymite		Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury.

Substances	CAS Number	Reproductive toxicity
Crystalline silica, quartz	14808-60-7	No information available
Crystalline silica, cristobalite	14464-46-1	No information available
Crystalline silica, tridymite	15468-32-3	No information available

Substances	CAS Number	STOT - single exposure
Crystalline silica, quartz	14808-60-7	No significant toxicity observed in animal studies at concentration requiring classification.
Crystalline silica, cristobalite	14464-46-1	No significant toxicity observed in animal studies at concentration requiring classification.
Crystalline silica, tridymite	15468-32-3	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	STOT - repeated exposure
Crystalline silica, quartz	14808-60-7	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)
Crystalline silica, cristobalite	14464-46-1	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)
Crystalline silica, tridymite	15468-32-3	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)

Substances	CAS Number	Aspiration hazard
Crystalline silica, quartz	14808-60-7	Not applicable
Crystalline silica, cristobalite	14464-46-1	Not applicable
Crystalline silica, tridymite	15468-32-3	Not applicable

# 12. Ecological Information

12.1. Toxicity
Ecotoxicity Effects

# **Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data** 

Gubblanes Esstericky Bala					
Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	<b>Toxicity to Invertebrates</b>
				Microorganisms	
Crystalline silica,	14808-60-7	No information available	LL0 (96h) 10,000 mg/L	No information available	LL50 (24h) > 10,000 mg/L
quartz			(Danio rerio) (similar		(Daphnia magna) (similar
4.5			substance)		substance)
Crystalline silica,	14464-46-1	No information available	LL0 (96h) 10,000 mg/L	No information available	LL50 (24h) > 10,000 mg/L
cristobalite			(Danio rerio) (similar		(Daphnia magna) (similar
			substance)		substance)

#### BETTER WAY ORIGINAL FRESH SCENT

Crystalline silica,	15468-32-3	No information available	LL0 (96h) 10,000	No information available	LL50 (24h) > 10,000 mg/L
tridymite			mg/L(Danio rerio) (similar		(Daphnia magna) (similar
			substance)		substance)

Revision Date: 10-Jun-2015

# 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Crystalline silica, quartz	14808-60-7	No information available
Crystalline silica, cristobalite		The methods for determining biodegradability are not applicable to inorganic substances.
Crystalline silica, tridymite		The methods for determining biodegradability are not applicable to inorganic substances.

# 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Crystalline silica, quartz	14808-60-7	No information available
Crystalline silica, cristobalite	14464-46-1	No information available
Crystalline silica, tridymite	15468-32-3	No information available

# 12.4. Mobility in soil

Substances	CAS Number	Mobility
Crystalline silica, quartz	14808-60-7	No information available
Crystalline silica, cristobalite	14464-46-1	No information available
Crystalline silica, tridymite	15468-32-3	No information available

#### 12.5 Other adverse effects

No information available

# 13. Disposal Considerations

### 13.1. Waste treatment methods

Disposal Method Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

# 14. Transport Information

**US DOT** 

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

**US DOT Bulk** 

DOT (Bulk) Not applicable

**Canadian TDG** 

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

## IMDG/IMO

#### **BETTER WAY ORIGINAL FRESH SCENT**

Revision Date: 10-Jun-2015

**UN Number:** Not restricted Not restricted **UN Proper Shipping Name:** Transport Hazard Class(es): Not applicable Not applicable **Packing Group: Environmental Hazards:** Not applicable

IATA/ICAO

**UN Number:** Not restricted **UN Proper Shipping Name:** Not restricted **Transport Hazard Class(es):** Not applicable Not applicable **Packing Group:** Not applicable **Environmental Hazards:** 

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

**Special Precautions for User:** None

# 15. Regulatory Information

# **US Regulations**

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** 

Not applicable

EPA SARA (311,312) Hazard

Class

Acute Health Hazard Chronic Health Hazard

**EPA SARA (313) Chemicals** This product does not contain a toxic chemical for routine annual "Toxic Chemical

Release Reporting" under Section 313 (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity** 

Not applicable.

**EPA RCRA Hazardous Waste** 

Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste

as defined by the US EPA.

The California Proposition 65 regulations apply to this product. **California Proposition 65** 

MA Right-to-Know Law One or more components listed.

One or more components listed. NJ Right-to-Know Law

PA Right-to-Know Law One or more components listed.

# **Canadian Regulations**

**Canadian DSL Inventory** All components listed on inventory or are exempt.

# 16. Other information

**Preparation Information** 

Chemical Stewardship **Prepared By** 

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e-mail: fdunexchem@halliburton.com

**Revision Date:** 10-Jun-2015

SDS sections updated: Reason for Revision

#### Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

# Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

LC50 – Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm – parts per million

STEL - Short Term Exposure Limit

TWA - Time-Weighted Average

**UN - United Nations** 

h - hour

mg/m<sup>3</sup> - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

w/w - weight/weight

d - day

#### Key literature references and sources for data

www.ChemADVISOR.com/ **OSHA** ECHA C&L

#### **Disclaimer Statement**

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#### **End of Safety Data Sheet**