



MILWHITE, INC  
BARIUM SULFATE

SDS

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Basco Wate™, Marfil™  
**Synonyms** Naturally occurring barium sulfate, Barite, Barytes  
**CAS Number** 7727-43-7

**Manufacturer/Supplier** Milwhite, Inc.  
5487 S. Padre Island Hwy.  
Brownsville, TX 78521

**Emergency number** For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night. North America 800-424-9300, International + 1956-547-1970.

## SECTION 2: HAZARDS IDENTIFICATION

**Hazard Overview** CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION; NUISANCE DUST.  
**Potential Health Effects** CONTAINS CRYSTALLINE SILICA WHICH MAY CAUSE CANCER.

**Inhalation** Excessive concentrations of dust may cause nuisance condition such as coughing, sneezing, and nasal irritation. Repeated inhalation may cause delayed lung injury.

**Ingestion** Barite is considered to be relatively non-toxic under normal use.

**Skin Contact** Wash with soap and water. Direct contact may cause dryness and itching.

**Eye Contact** Direct contact may cause mechanical irritation.

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

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline silica, quartz	14808-60-7	1-5%	TWA: 0.025 mg/m <sup>3</sup>	<u>10mg/m<sup>3</sup></u> %SiO <sub>2</sub> +2

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Barium sulfate	7727-43-7	85-100%	TWA: 10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

## SECTION 4: FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.  
**Ingestion** May cause gastric distress, nausea and vomiting if ingested.  
**Skin contact** Wash with soap and water. Contact a physician if irritation persists or later develops.  
**Eye contact** Wash thoroughly with running water at least 15 minutes. Get medical advice if irritation develops.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Flash Point/Range</b>	Not Determined
<b>Flash Point Method</b>	Not Determined
<b>Autoignition Temperature</b>	Not Determined
<b>Flammability Limits in Air-Lower (%)</b>	Not Determined
<b>Flammability Limits in Air - Upper (%)</b>	Not Determined
<b>Fire Extinguishing Media</b>	All standard firefighting media
<b>Special Exposure Hazards</b>	Not applicable
<b>Special Protective Equipment for Fire Fighters</b>	Not applicable
<b>NFPA Ratings</b>	Health 1, Flammability 0, Reactivity 0
<b>HMIS Ratings</b>	Health 1, Flammability 0, Reactivity 0, PPE:E
<b>Unusual Fire and Explosion Hazards</b>	Not applicable



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>General</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks</b>	Vacuum or sweep material and place in a suitable container. Avoid generating dust. Provide ventilation.
<b>Environmental Precautions</b>	None Known.

## SECTION 7: HANDLING AND STORAGE

<b>Handling</b>	Use personal protection and controls as identified in Section 8. Avoid the generation of dust. Avoid contact with eyes and skin. Wash hands thoroughly after handling.
<b>Storage</b>	Keep container closed, store in a cool, dry, ventilated area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	A system of local and/or general exhaust is recommended to keep employee exposures below the TLV limits and OSHA LIMITS Section 2 & 3.
<b>Respiratory Protection</b>	Wear an appropriate NIOSH-approved respirator. Respirator must comply with applicable MSHA or OSHA standards, which include provisions for a user-training program, respirator fit testing, and other requirements.
<b>Skin Protection</b>	Work Gloves, Apron/Coveralls
<b>Eye Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>General Hygiene</b>	Wash dust-exposed skin with soap and water before eating or drinking. Wash work clothes after each use.
<b>Other Control Measures</b>	None known.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	<b>Powder</b>
<b>Upper/Lower flammability or Explosive limits:</b>	<b>Not flammable</b>
<b>Odor:</b>	<b>Odorless</b>
<b>pH:</b>	<b>7-10</b>
<b>Specific Gravity @ 20 C (Water=1):</b>	<b>3.95-4.25</b>
<b>Density @ 20 C (lbs./gallon):</b>	<b>Not Determined</b>
<b>Bulk Density @ 20 C (lbs./ft3):</b>	<b>130</b>
<b>Boiling Point/Range (F):</b>	<b>Not Determined</b>
<b>Boiling Point/Range (C):</b>	<b>Not Determined</b>
<b>Melting Point/Freezing Point/Range (F):</b>	<b>Not Determined</b>
<b>Melting Point/Freezing Point/Range (C):</b>	<b>Not Determined</b>
<b>Vapor Pressure @ 20 C (mmHg):</b>	<b>Not Determined</b>
<b>Vapor Density (Air=1):</b>	<b>Not Determined</b>
<b>Percent Volatiles:</b>	<b>Not Determined</b>
<b>Evaporation Rate (Butyl Acetate=1):</b>	<b>Not Determined</b>
<b>Solubility in Water (g/100ml):</b>	<b>Insoluble</b>
<b>Solubility in Solvents (g/100ml):</b>	<b>Not Determined</b>
<b>VOCs (lbs./gallon):</b>	<b>Not Determined</b>
<b>Viscosity, Dynamic @ 20 C (centipoises):</b>	<b>Not Determined</b>
<b>Viscosity, Kinematic @ 20 C (centistokes):</b>	<b>Not Determined</b>
<b>Partition Coefficient/n-Octanol/Water:</b>	<b>Not Determined</b>
<b>Flash Point:</b>	<b>None Flammable</b>
<b>Auto ignition temperature:</b>	<b>Non-Flammable</b>
<b>Decomposition temperature:</b>	<b>Not Determined</b>



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**SECTION 10: STABILITY AND REACTIVITY**

<b>Stability</b>	Stable.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Conditions to Avoid</b>	None anticipated
<b>Incompatibility (materials to Avoid)</b>	Not Determined
<b>Hazardous Decomposition Products</b>	Not Determined

**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity: IARC, MTP, OSHA or ACGIH does not list Barium Sulfate as a Carcinogen.  
Toxicological effects ingredients-LD50 and LD50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	>5000 mg/kg
IARC Group	1
National Toxicity Program (NTP) Status	Known Human Carcinogens.

**Principle Route of Exposure**

Eye or skin contact, inhalation.

**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 (IARC2A).

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).

**Skin contact**

May cause mechanical skin irritation.

**Eye Contact**

May cause eye irritation.

**Ingestion**

None known

**Aggravated Medical Conditions**

Individuals with respiratory disease including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

**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 reduce pulmonary function. This disease is exacerbated by smoking. individuals with silicosis are predisposed to develop tuberculosis.

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 volume 100C\(2012\) Arsenic, Metals, Fibres and Dusts \(Silica Dust, Crystalline, in the form of Quartz or Cristobalite\)](#) 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 9<sup>th</sup> Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienist (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 organs) and kidney disease.



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**Other Information**

For further information consult: Adverse Effects of Crystalline Silica Exposure” published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

**Toxicity Tests**

<b>Oral Toxicity:</b>	Not determined
<b>Dermal Toxicity:</b>	Not determined
<b>Inhalation Toxicity:</b>	Not determined
<b>Primary Irritation Effect:</b>	Not determined
<b>Carcinogenicity:</b>	Refer to IARC Monograph 100C, Arsenic, Metals, Fibres and Dusts (2012).
<b>Genotoxicity:</b>	Not determined
<b>Reproductive/Developmental Toxicity:</b>	Not determined

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Fate:**

<b>Mobility (Water/Soil/Air)</b>	Not determined
<b>Persistence/Degradability</b>	Not determined
<b>Bio-accumulation</b>	Not determined

**Environmental Toxicity:**

<b>Acute Fish Toxicity</b>	Not determined
<b>Acute Crustaceans Toxicity</b>	Not determined
<b>Acute Algae Toxicity</b>	Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Disposal Method</b>	Bury in a licensed landfill according to federal, state and local regulations. Substance should not be deposited into a sewage facility.
<b>Contaminated Packaging</b>	Follow all applicable national and local regulations. Contaminated packing may be disposed of by rendering packaging incapable of containing any substance, or by disposing of packaging into commercial waste collection.

**SECTION 14: TRANSPORT INFORMATION**

**Land Transportation**

DOT	Not restricted
Canadian TDG	Not restricted
ADR	Not restricted

**Air Transportation**

ICAO/IATA	Not restricted
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**Sea Transportation**

IMDG	Not restricted
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**Other Transportation Information**

Labels	None
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**SECTION 15: REGULATORY INFORMATION**



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**US Regulations:**

**US TSCA Inventory**

**EPA SARA Title III Extremely Hazardous Substances**

**EPA SARA (311,312) Hazard Class**

**EPA SARA (313) Chemicals**

**EPA CERCLA/Superfund reportable Spill Quantity**

**EPA RCRA Hazardous**

**California Proposition 65**

**MA Right-to-Know Law**

**NJ Right-to-Know Law**

**PA Right-to-Know Law**

**Canadian Regulations:**

**Canadian DSL Inventory**

**WHMIS Hazard Class**

**Waste Classification:**

All components listed on inventory or are exempt.

N/A

Acute Health Hazard; Chronic Health Hazard

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

N/A

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the U.S. EPA.

The California Proposition 65 regulations apply to this product.

One or more components listed.

One or more components listed

One or more components listed.

All components listed on inventory or are exempt.

D2A Very Toxic Materials  
Crystalline Silica

**SECTION 16: OTHER INFORMATION**

**Date of Revision:** 02/05/2015

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**END of SDS**