



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MicroWate™ **Product Name**

Synonyms Naturally occurring strontium sulfate, celestite

7759-02-6 **CAS Number**

Manufacturer/Supplier Milwhite, Inc.

5487 S. Padre Island Hwy. Brownsville, TX 78521

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or **Emergency number**

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.

Celestite is considered to be relatively non-toxic under normal use. Ingestion 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/m³	10mg/m³ %Si02+2

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Strontium Sulfate	7759-02-6	85-100%	TWA: 10 mg/m ³	15 mg/m³

SECTION 4: FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

May cause gastric distress, nausea and vomiting if ingested. Ingestion

Wash with soap and water. Contact a physician if irritation persists or later develops. Skin contact

Wash thoroughly with running water at least 15 minutes. Get medical advice if irritation develops. Eye contact

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point/Range Not Determined Flash Point Method Not Determined **Autoignition Temperature** Not Determined Flammability Limits in Air-Lower (%) Not Determined Flammability Limits in Air - Upper (%) Not Determined

Fire Extinguishing Media All standard firefighting media

Special Exposure Hazards

Not applicable Special Protective Equipment for Fire Fighters Not applicable

NFPA Ratings Health 1, Flammability 0, Reactivity 0 **HMIS Ratings** Health 1, Flammability 0, Reactivity 0, PPE:E

Unusual Fire and Explosion Hazards Not applicable



SECTION 6: ACCIDENTAL RELEASE MEASURES

General Use proper personal protective equipment as indicated in Section 8.

Vacuum or sweep material and place in a suitable container. Avoid generating dust. Provide Spills/Leaks

ventilation.

Environmental Precautions None Known.

SECTION 7: HANDLING AND STORAGE

Use personal protection and controls as identified in Section 8. Avoid the generation of dust. Avoid contact with Handling

eyes and skin. Wash hands thoroughly after handling.

Keep container closed, store in a cool, dry, ventilated area. Containers of this material may be hazardous Storage

when empty since they retain product residues (dust, solids); observe all warnings and precautions listed

for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls A system of local and/or general exhaust is recommended to keep employee exposures below

the TLV limits and OSHA LIMITS Section 2 & 3.

Respiratory Protection 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.

Skin Protection Work Gloves, Apron/Coveralls

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

General Hygiene Wash dust-exposed skin with soap and water before eating or drinking. Wash work clothes

after each use.

Other Control Measures None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Powder Appearance: Upper/Lower flammability or Explosive limits: Not flammable Odor: **Odorless** pH: 7-10

Specific Gravity @ 20 C (Water=1): 3.95-4.25 Density @ 20 C (lbs./gallon): **Not Determined**

Bulk Density @ 20 C (lbs./ft3): 130

Boiling Point/Range (F): **Not Determined** Boiling Point/Range (C): **Not Determined** Melting Point/Freezing Point/Range (F): **Not Determined**

Melting Point/Freezing Point/Range (C): Not Determined Vapor Pressure @ 20 C (mmHg): **Not Determined** Vapor Density (Air=1): **Not Determined Percent Volatiles: Not Determined** Evaporation Rate (Butyl Acetate=1): **Not Determined**

Solubility in Water (g/100ml): Insoluble Solubility in Solvents (g/100ml): **Not Determined** VOCs (lbs./gallon): **Not Determined** Viscosity, Dynamic @ 20 C (centipoises): **Not Determined**

Viscosity, Kinematic @ 20 C (centistrokes): **Not Determined** Partition Coefficient/n-Octanol/Water: Not Determined Flash Point: None Flammable Auto ignition temperature: Non-Flammable

Not Determined Decomposition temperature:



SECTION 10: STABILITY AND REACTIVITY

Stability Stable.

Hazardous Polymerization Will not occur. **Conditions to Avoid** None anticipated Incompatibility (materials to Avoid) Not Determined **Hazardous Decomposition Products** Not Determined

SECTION 11: TOXICOLOGICAL INFORMATION

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

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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 tridytime (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.

None known Ingestion

Aggravated Medical Conditions Individuals with respiratory disease including but not limited to asthma and

bronchitis, or subject to eve 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 9th 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.



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 or Respiratory and Critical Care Medicine,

Volume 155, pages 761-768 (1997).

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity: Refer to IARC Monograph 100C, Arsenic, Metals, Fibres and Dusts (2012).

Genotoxicity: Not determined

Reproductive/Developmental Toxicity: Not determined

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate:

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

Environmental Toxicity:

Acute Fish Toxicity Not determined **Acute Crustaceans Toxicity** Not determined **Acute Algae Toxicity** Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

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

Substance should not be deposited into a sewage facility.

Contaminated

Follow all applicable national and local regulations. Contaminated packing may be disposed of by **Packaging** 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

Sea Transportation

IMDG Not restricted **Other Transportation Information**

Labels None

SECTION 15: REGULATORY INFORMATION



<u>US Regulations:</u> Waste Classification:

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

EPA SARA Title III Extremely

Hazardous Substances N/A

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 eportable Spill Quantity

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

waste as defined by the U.S. EPA.

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

MA Right-to-Know Law

NJ Right-to-Know Law

One or more components listed.

One or more components listed.

One or more components listed.

Canadian Regulations:

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

WHMIS Hazard Class D2A Very Toxic Materials

Crystalline Silica

SECTION 16: OTHER INFORMATION

Date of Revision: 02/05/2015

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