

SAFETY DATA SHEET

DATE: 03/10/2015

STALITE



CAROLINA STALITE COMPANY

MANUFACTURERS OF LIGHTWEIGHT AGGREGATE "STALITE"

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STALITE

RECOMMENDED USE: Construction, Structural, Masonry, Concrete, Ready Mix, Precast, Prestress Horticulture, Asphalt, Lightweight Fill Geotechnical, Aquaponics, and Stormwater Research

MANUFACTURER: CAROLINA STALITE COMPANY

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SECTION 2: HAZARDS IDENTIFICATION

Main Risks:

Dust may irritate the eyes, skin and respiratory tract. Avoid breathing excessive dust. Breathing silica-containing dust for prolonged periods in the workplace can cause lung damage and a lung disease called silicosis. Several scientific organizations have classified crystalline silica as causing lung cancer in humans. Silicosis or lung cancer can result in permanent injury or death.

Inhalation:

Dusts may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing sneezing and shortness of breath may occur.

Skin Contact:

Dust particles can scratch and irritate the skin with redness, an itching or burning feeling, swelling of the skin, and/or rash.

Contact with Eyes:

Dust particles can scratch the eye causing tearing, redness, a stinging or burning feeling, or swelling of the eyes with blurred vision.

Ingestion:

Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation including nausea, vomiting diarrhea blockage.

GHS LABEL ELEMENTS

Symbol(s)

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Signal Word

Warning

Hazard Statements

Harmful if swallowed or inhaled.

Causes skin irritation.

Causes serious eye irritation.

Causes damage to organs (respiratory system) through prolonged or repeated exposure.

Precautionary Statements

Prevention

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product

Do not breathe dust.

Use only outdoors or in a well-ventilated area.

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

Obtain special instructions before use.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

General Product Information

The product is composed of 100% slate, expanded at high temperature. The expanded slate is primarily amorphous type. However, quartz (crystalline silica) may be present in excess of 1%. When exposure to this products and other chemicals is concurrent, the TLVs must be defined at the work place. Exposure limits vary with the percentage of quartz in dust. All limits are 8-hr. TWA exposures.

Hazardous Components	OSHA PEL	ACGIH TLV	
Quartz, Crystalline 14808-60-7	10 mg/m ³ / % SiO ₂ + 2		Respirable Dust
Quartz, Crystalline 14808-60-7	30 mg/m ³ / % SiO ₂ + 2		Total Dust
Quartz, Crystalline 14808-60-7		30 mg/m ³ / % SiO ₂ + 3	Total Dust
Silica Amorphous 60676-86-0	10 mg/m ³ / % SiO ₂ + 2		Respirable Dust

SECTION 4: FIRST AID MEASURES

First Aid: Eyes

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In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, including under the lids. If easy to do, remove contact lenses, if worn. Get medical attention immediately if irritation persists.

First Aid: Skin

If irritation occurs, wash and flush skin with soap and water. Call physician if irritation persists.

First Aid: Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. If conscious and capable of swallowing, rinse mouth thoroughly with water and then drink plenty of water to dilute the material in the stomach. Get medical attention immediately.

First Aid: Inhalation

Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Seek medical help if coughing and other symptoms do not subside.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards

Not flammable.

Hazardous Combustion Products

None.

Extinguishing Media

Use water, or use extinguishing media suitable for the surrounding materials.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization

None.

Methods for Clean-Up

Contain the spill or leak. Spilled materials, where dust can be generated, may overexpose cleanup personnel to respirable dust. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Avoid generating dust. Collect spilled material.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions

None

Prevention of Secondary Hazards

None.

SECTION 7: HANDLING AND STORAGE

Regulatory Requirements

Approved handler and tracking not required.

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Handling Procedures

Avoid contact with skin and eyes. Wear the appropriate eye protection against dust. Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded. Use good safety and industrial hygiene practices.

Storage Procedures

Store in dust-tight, labeled containers. Keep containers closed when not in use. Store in ventilated area.

Incompatibilities

None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous Components	OSHA/MSHA PEL	ACGIH TLV	NIOSH REL
Silica Amorphous	80 mg/m ³ / % silica	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	6 mg/m ³
Particulates not otherwise classified	15 mg/m ³ (total dust) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	NE
Respirable dust containing silica	10 mg/m ³ / % SiO ₂ + 2		Use respirable silica REL
Total dust containing silica	30 mg/m ³ / %SiO ₂ + 2 OSHA 30 mg/m ³ / %SiO ₂ + 3 MSHA	NE	NE
Quartz, Crystalline (respirable)	NE – use respirable dust PEL	0.025 mg/m ³	0.05 mg/m ³
Crystalline Silica (respirable)	½ of OSHA and MSHA respirable dust PEL	0.025 mg/m ³	0.05 mg/m ³

Legend:

NE = Not Established; PEL = Permissible Exposure Limit; TLV = Threshold Limit Value; REL = Recommended Exposure Limit; OSHA = Occupational Safety and Health Administration; MSHA = Mine Safety and Health Administration; NIOSH = National Institute for Occupational Safety and Health; ACGIH = American Conference of Governmental Industrial Hygienists

Engineering Measures

Use local exhaust, general dilution ventilation, and/or wet suppression to control exposure within applicable limits.

Personal Protective Equipment: Respiratory

Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

Personal Protective Equipment: Hands

Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

Personal Protective Equipment: Eyes

When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments,

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wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey Agggregate	Odor:	None
Physical State:	Solid/Gravel to Sand	pH:	
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
Boiling Point:	Not Applicable	Melting Point:	Not Applicable
Solubility (H2O):	Non-soluble	Specific Gravity:	1.47 – 1.75
Evaporation Rate:	Not Applicable	VOC:	Not Determined
Octanol/H2O Coeff.:	Not Determined	Flash Point:	Non Flammable
Flash Point Method:	Not Determined	Upper Flammability Limit (UFL):	Not Determined
Lower Flammability Limit (LFL):	Not Determined	Burning Rate:	Not Determined
Auto Ignition:	Not Determined		

SECTION 10: STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Hazardous Reaction Potential

None Known

Conditions to Avoid

Contact with incompatible materials should be avoided (see below).

Incompatible Products

Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.

Hazardous Decomposition Products

Silica-containing respirable dust particles may be generated. When heated, quartz is slowly transformed into tridymite (above 860°C/1580°F) and cristobalite (above 1470°C/2678°F). Both tridymite and cristobalite are other forms of crystalline silica and are considered more fibrogenic to the lungs than quartz.

SECTION 11: TOXICOLOGICAL INFORMATION

Health Hazards

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs. Because of a wide variation to individual susceptibility, TLVs may not be applicable to all persons and those with medical conditions listed below.

Acute Hazards

Primary route(s) of exposure: Inhalation. Exposure to dust may irritate respiratory system, eyes, and skin.

Chronic Hazards

Chronic exposure to respirable dust in excess of appropriate TLVs has caused pneumoconiosis (dusty lung). Chronic exposure to respirable quartz-containing dust in excess of appropriate TLVs has caused silicosis, a progressive pneumoconiosis.

Symptoms of Silicosis Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis is progressive, and symptoms can appear at any time, even years

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after exposure have ceased. Symptoms of silicosis may include (but are not limited to): shortness of breath, difficulty breathing with or without exertion, coughing, diminished work capacity, diminished chest expansion, reduction of lung volume, right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

Signs and Symptoms of Exposure

Irritation of eyes, nose, skin, throat and/or shortness of breath.

Potential Health Effects: Skin

May cause skin irritation.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

May cause irritation (possibly severe).

Potential Health Effects: Ingestion

May cause stomach distress, nausea or vomiting. May cause burning of mouth, throat and esophagus.

Potential Health Effects: Inhalation

Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat and upper respiratory tract.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure

Causes damage to organs (respiratory system) through prolonged or repeated exposure.

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

SECTION 12: ECOLOGICAL INFORMATION

General Product Information

Not classified for ecotoxicity

Aquatic

Not classified as an aquatic ecotoxicity.

Soil

Not classified for soil ecotoxicity

Terrestrial Vertebrates and Invertebrates

Not classified as toxic to terrestrial vertebrates and invertebrates

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

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SECTION 14: TRANSPORT INFORMATION

Relevant Requirements

Not regulated for transport purpose.

SECTION 15: REGULATORY INFORMATION

Regulatory Information

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act.

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list or all state regulations. Therefore, the user should review the components listed in Section 2 and consult state or local authorities for specific regulations that apply.

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:

Section 302 extremely hazardous substances:

None

Section 311/312 hazard categories:

Delayed Health

Section 313 reportable ingredients at or above de minimus concentrations:

None

SECTION 16: OTHER INFORMATION

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