



MATERIAL SAFETY DATA SHEET
[OSHA 29 CFR 1910.1200]

PACKAGE PAVEMENT

P.O. BOX 408, 675 LEETOWN ROAD
STORMVILLE, NY 12582

EMERGENCY TELEPHONE #
(800) 724-8193
FAX # (845) 221-0433

INFORMATION TELEPHONE #
(800) 724-8193

DATE OF PREPARATION: DECEMBER 2006
LAST REVISION: MAY 2007

MSDS JL

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PPE	I

SECTION I: PRODUCT IDENTIFICATION

PACKAGE PAVEMENT® - PRODUCT NAME

ITEM CODE(s)#

JOINT-LOCK™ SAND - TAN
JOINT-LOCK™ SAND - GRAY
JOINT-LOCK™ STONE DUST

98557 (70#)
R98473 (70#)
97600 (70#)

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	% By Weight
----------------------	---------	-------------

Sand (Quartz)	14808-60-7	95.0 - 99.0%
Natural carbohydrate material	8063-16-9	1.0 - 5.0%

May contain one of the following:

Crushed Limestone (1),(2)	01317-65	95 - 99%
---------------------------	----------	----------

(1) Silica is a naturally occurring constituent in limestone. The silica in this product is not flammable, combustible or explosive. It does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effects. Once liquid is added to the product the hazards associated with silica dust are greatly diminished.

(2) The use of Crushed Limestone is limited to the production of Joint-Lock Stone Dust.

Other Limits: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05 mg/M³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for the Recommended Standard Occupational Exposure to Crystalline Silica.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor (Joint-Lock Sand):

Sand colored granular material.

Appearance and Odor (Joint-Lock Stone Dust):

Light Colored Crushed Limestone (1)

Specific Gravity: 2.6 - 3.1 g/cm³

PH: @7

Melting Point: ~3110 F (1710 C)

Volatiles: N/A

(1) Properties of Joint-Lock Stone Dust

**SECTION IV: FIRE AND EXPLOSION HAZARD DATA****Flash Point (Method Used):** N/A

This product is non-flammable and does not cause dust explosions

SECTION V: REACTIVITY DATA

Keep product dry until used to preserve product quality. Product will harden with the application of water.
Hazardous Decomposition Products - Oxides of Carbon.

SECTION VI: HEALTH HAZARD DATA**EFFECTS OF ACUTE EXPOSURE****Skin Contact:** Mechanical Irritation**Eye Contact:** Mechanical Irritation**Inhalation:** Irritating to upper respiratory tract. If dust is present use a dust mask.**Ingestion:** Not a probable route of entry.**EFFECTS OF CHRONIC EXPOSURE****Skin Contact:** No unusual dermatitis is expected from routine handling.**Inhalation:** Repeated inhalation of dust containing crystalline silica can cause bronchitis silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs), tuberculosis and kidney disease.**EMERGENCY AND FIRST AID PROCEDURES****Skin Contact:** Wash skin with lukewarm soapy water; shower if required. Apply skin moisturizer. Wash contaminated clothing before reuse.**Eye Contact:** Irrigate with copious quantities of clean water for at least 15 min. Seek medical attention if discomfort persists. Continue irrigating the eyes with clean water or a saline eye wash while transporting to a medical facility.**Inhalation:** Move immediately to fresh air. Wash affected area, mouth, nose, etc. with clean water.**Ingestion:** Wash mouth and lips with copious quantities of clean water. Do not induce vomiting. Give clean water or milk to drink. Seek medical attention immediately.



SECTION VII: EXPOSURE LIMITS AND TOXICOLOGICAL DATA

MATERIAL	TWA (mg/m³)
Sand (quartz / crystalline silica)	0.2 (respirable dust)
Dust (NOS - not otherwise specified)	10 mg/m ³

INHALATION: DO NOT BREATHE DUST. Many uses of silica sand require it to be used in a dry condition, in such cases PEL exposure limits may be exceeded. Local exhaust can be helpful to reduce airborne dust levels. When dust levels exceed PEL exposure limits, the use of OSHA, MSHA, or NIOSH approved respirator is required. Respirator requirements are based on exposure levels as shown below:

- 5X - PEL or less:** Any dust respirator
- 10X - PEL or less:** Any dust respirator, except single -use or quarter-mask respirator. Any fume respirator or high efficiency particulate filter respirator.
- 50X - PEL or less:** A high efficiency particulate filter respirator with a full face piece.
- 500X - PEL or less:** A powered air-purifying respirator with a high efficiency particulate filter. A Type C supplied air respirator operated in a pressure demand or other positive pressure continuous flow mode.

Greater than 500X PEL or entry and escape from unknown concentration: Self contained breathing apparatus with a full face piece operated pressure demand or other positive pressure mode. A combination respirator which includes a TYPE C supplied air respirator with a full face piece operated in pressure demand or other positive pressure continuous flow mode and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

PPE STANDARDS: (PERSONAL PROTECTION EQUIPMENT REQUIREMENTS) An Item of P.P.E. is defined as a device for Individual Protection which protects a person from a risk which threatens his or her security.

- CATEGORY 1 :** Minor Risks (Product when used in accordance with instructions should pose limited risk to individual. (Requires the use of respirator, goggles, gloves and long sleeve clothing and work pants.)
- CATEGORY 2 :** Serious Risks (Requires specialized work clothing and equipment & professional supervision)
- CATEGORY 3 :** Major or life threatening risks. (Requires air purifying respirator, special clothing and equipment and should only be done by a trained specialist.)



SECTION VII: SPECIAL PROTECTION INFORMATION

General Recommendations: Keep exposure to dust as low as practical. If dust levels are kept below 2 mg/m³, health problems such as skin, eye and respiratory irritation may be minimized. Respirable crystalline silica (quartz) exposure levels should be kept below 0.1 mg/m³.

Respiratory Protection: If dust is generated wear a NIOSH / MSHA approved respirator. Do not breathe this dust as it may contain crystalline silica.

Eye Protection: Eye protection is strongly recommended.

Skin Protection: Gloves and a long sleeved shirt are recommended. After working with this product, workers are advised to shower with soap and water and apply a skin moisturizer. Work clothes should be washed after exposure to this product.

Ventilation: Use local mechanical ventilation or extraction in enclosed work environments where dust might escape.

Other Protective Equipment: Eyewash facility or eyewash solution.

Other Precautions: Do not use solvents or abrasive cleaners to wash exposed skin.

SECTION VIII: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storing:

Store and transport product in a manner to prevent ingress of moisture, water or acids and emission of dust. For handling of individual bags, follow safe manual handling practices. Work areas should be cleaned regularly by sweeping and vacuuming. Use adequate ventilation and dust collection. Do not breathe dust. If dust occurs, wear a respirator approved for silica dust when using, handling, storing or disposing of this product or packaging.

SECTION X: ENVIRONMENTAL PROTECTION

Waste Disposal Procedure: Disposal of this product and its container must comply with all applicable federal, state, provincial and local regulations.

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in this product. Customers/Users must comply with all applicable health and safety laws, regulations and orders covering silica.