



JANESVILLE SAND & GRAVEL CO.

Safety Data Sheet

Sand and/or Gravel

Section 1: Identification

Product: Sand and/or Gravel

Synonyms: 5/8" Washed Stone, 3/4" Washed Stone, 1 1/2" Washed Stone, Birdseye Gravel, Pea Gravel, 1" Recycled Base, 3" Recycled Base, Fill Sand, Concrete Sand, Mason Sand, Bunker Sand

Product Use: Formulated for use in various applications in the construction industry.

Manufacturer: **Janesville Sand & Gravel Co.**

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Section 2: Hazard(s) Identification

GHS LABEL ELEMENTS:

Symbol(s)



Signal Word

Warning!

Hazard Statements

Harmful if inhaled.

Harmful if swallowed.

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

Precautionary Statements

Prevention

Do not breathe dust.

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

Obtain special instructions before use.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

Response

If inhaled: Remove to fresh air, seek medical attention if breathing becomes difficult or other symptoms do not subside.

If swallowed: Rinse mouth. Do NOT induce vomiting. If conscious, drink plenty of water. Immediately call a poison center or physician.

If on skin: Wash skin with cool water and pH neutral soap. Seek medical attention if irritation develops or persists.

In the eyes: Immediately flush eye thoroughly with water for at least 15 minutes, including under the lid. Remove contact lenses, if worn. If irritation persists, seek medical attention.

Take off contaminated clothing and wash it before reuse.

Disposal

Dispose in accordance with State, Federal and Local regulations.



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Section 3: Composition/Information on Ingredients

Component	Percent (By Weight)	CAS Number	OSHA PEL – TWA (mg/m ³)	ACGIH TLV – TWA (mg/m ³)
Crystalline Silica (Sand and Gravel)	99-99.1	14808-60-7	[(10) / (%SiO ₂ +2)] (R); [(30) / (%SiO ₂ +2)] (T)	0.025 (R)

(T) = Total Particulate

(R) = Respirable Particulate

General Product Information

Trace Elements: Sand and/or Gravel are made from materials mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

Section 4: First-Aid Measures

Eyes

Flush eyes thoroughly with water. Continue flushing eyes for at least 15 minutes, including under the lids, to remove all particles. Remove contact lens if wearing. Seek medical attention for abrasions.

Skin

Wash skin with cool water and pH neutral soap. Remove contaminated clothing and shoes. Seek medical attention if irritation or rash develops or persists.

Ingestion

Do NOT induce vomiting unless directed to do so by a medical personnel. Rinse mouth. If conscious, give plenty of water to drink and seek medical attention immediately.

Inhalation

Remove to fresh air. Seek medical attention for discomfort or if coughing and other symptoms do not subside.

Symptoms and Effects, Both Acute and Delayed

Eyes

Eye contact to airborne dust may cause immediate or delayed irritation or inflammation. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Skin

Sand and gravel may cause dry skin, abrasions, discomfort and irritation.

Inhalation (acute)

Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.

Inhalation (chronic)

Risk of injury depends on duration and level of exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.

Ingestion

Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Section 5: Fire-Fighting Measures

General Fire Hazards

See Section 9 for Flammability Properties. Non-Combustible.

Hazardous Combustion Products

None

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None



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Fire Fighting Equipment/Instructions

Avoid breathing dust. Firefighters should wear full protective gear.

Section 6: Accidental Release Measures

General

Place spilled material into a container. Avoid actions that cause sand and gravel to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment as described in Section 8. Do not wash sand and gravel down sewage and drainage systems or into bodies of water (e.g. streams).

Waste Disposal Method

Dispose according to State, Federal and Local regulations.

Section 7: Handling and Storage

General

Engulfment hazard. To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contain sand or gravel. Sand or gravel can build-up or adhere to the walls of a confined space. The sand or gravel can release, collapse or fall unexpectedly.

Storage

Keep out of the reach of children. Avoid any dust buildup by frequent cleaning of the storage area.

Usage

Cutting, crushing or grinding hardened mortar or other crystalline silica bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8.

Housekeeping

Avoid actions that cause dust to become airborne during clean-up such as drysweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8.

Clothing

Laundry contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Section 8: Exposure Controls/Personal Protection

Engineering Controls

Use local exhaust or general dilution ventilation or other suppression method to maintain dust levels below exposure limits.

Respiratory Protection

Under ordinary conditions no respirator protection is required. A NIOSH approved dust mask that is properly fitted and is in good working is recommended when exposed to dust above exposure limits.

Eye Protection

Wear ANSI approved safety glasses with side shields or safety goggles when handling sand or gravel to prevent contact with eyes. Wearing contact lenses when using sand or gravel, under dusty conditions, is not recommended.

Skin Protection

Wear gloves in situations where abrasion from sand or gravel may occur. Remove clothing and protective equipment that becomes dusty and launder before reuse.

Hygienic Practices

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands before eating or smoking.

Section 9: Physical and Chemical Properties

Physical State:	Granular solid	Evaporation Rate:	NA
Appearance/Odor:	Multicolor particles/None	pH (in water):	Neutral
Vapor Pressure:	NA	Boiling Point:	NA
Vapor Density	NA	Viscosity:	NA, solid
Specific Gravity:	2.55-2.80	Solubility in Water:	Insoluble
Ignition:	Non-Flammable	Flash point:	NA



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Section 10: Stability and Reactivity

Stability

Stable.

Incompatibility

Sand and gravel dissolve in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Polymerization None.

Hazardous Decomposition None

Conditions to Avoid Avoid contact with incompatible materials.

Section 11: Toxicological Information

Likely Routes of Exposure:

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Carcinogenicity

General Product Information (Chronic)

May cause cancer.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Standard animal toxicity data like LD50, LC50 are not available. Animal tests and epidemiologic studies of workers indicate an increased risk of lung cancer from exposure to respirable crystalline silica. The effect was more pronounced in those with silicosis.

Component Carcinogenicity

Crystalline Silica, Quartz

ACGIH: Suspected Human Carcinogen

NIOSH: Potential Occupational Carcinogen

NTP: Known Human Carcinogen

IARC: Monograph 100C [2012] Crystalline silica in the form of quartz or cristobalite is carcinogenic to humans (Group 1)

Chronic Health Effect

Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Aspiration Respiratory Organ hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological Information (non-mandatory)

Seek information from appropriate regulatory agencies.

Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Instructions

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

Disposal of Contaminated Container or Packaging

Dispose of contents/container in accordance with State, Federal and Local regulations.



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Section 14: Transport Information (non-mandatory)

Not regulated by the U.S. DOT.

Section 15: Regulatory Information (non-mandatory)

OSHA/MSHA Hazard Communication

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.

CERCLA/SUPERFUND

This product is not listed as a CERCLA hazardous substance.

Section 16: Other Information

Abbreviations

PPE	Personal Protective Equipment	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
DOT	U.S. Department of Transportation	NTP	National Toxicology Program
HMS	Hazardous Materials Identification System	PEL	Permissible Exposure Limit
IARC	International Agency for Research on Cancer	OSHA	Occupational Safety and Health Administration
MSHA	Mine Safety and Health Administration	pH	Negative log of hydrogen ions
TLV	Threshold Limit Value		

HMS: Health-1, Flammability-0, Reactivity-0

HMS Definitions: 0-Minimal, 1-Slight, 2-Moderates, 3-Serious, 4-Extreme

Protective Equipment: Safety glasses, gloves, impervious clothing, respirator recommended

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