



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.

Manufacture: **Advanced Concrete Inc.**
6075 County Road K
Waunakee, WI 53597
Phone: 608-849-8880
Phone: 608-455-4050
advanced-concreteinc.com

Section 2: Hazard(s) Identification

GHS Label Elements:

Symbol(s)



Signal Word

Warning!

Hazard

Harmful if inhaled.

Statements

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.

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 a pH-neutral soap. Seek medical attention if irritation or inflammation 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.



Safety Data Sheet

Sand and/or Gravel

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	>1	14808-60-7	[(10) / (%SiO ₂ +2)] (R); [(30) / (%SiO ₂ +2)] (T)	0.025 (R)
Sand and Gravel	>99	None	NA	NA

(T) - Total Particulate

(R) - Respirable Particulate

General Product Information Trace Elements: Ready Mix Concrete is 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 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



Safety Data Sheet

Sand and/or Gravel

Fire Fighting Equipment/Instructions	Avoid breathing dust. Wet concrete is caustic. Firefighters should wear full protective gear.
---	---

Section 6: Accidental Release Measures

General	Place spilled material into a container. Avoid contact with the skin. Wear appropriate protective equipment as described in Section 8. Scrape wet concrete and place in container. Allow material to dry or solidify before disposal. Do not wash concrete down sewage and drainage systems or into bodies of water (e.g. streams).
Waste Disposal Method	Dispose of concrete 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 concrete, cement 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 dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8.
Clothing	Promptly remove and launder clothing that is wet with concrete. Thoroughly wash skin after exposure to wet concrete.

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 respirator that is properly fitted and is in good working condition is recommended in poorly ventilated areas or when exposed to dust above exposure limits.
Eye Protection	Wear ANSI approved safety glasses with side shields or safety goggles when handling wet concrete to prevent contact with eyes. Wearing contact lenses when using concrete is not recommended.
Skin Protection	Wear gloves, boots and protective clothing (long sleeve shirt and pants) impervious to water to prevent skin contact. Do not rely on barrier creams, in place of impervious gloves. Remove clothing and protective equipment that becomes saturated with wet concrete and immediately wash exposed areas.
Hygienic Practices	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands before eating or smoking.



Safety Data Sheet

Sand and/or Gravel

Section 9: Physical and Chemical Properties

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

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)	<p>May cause cancer.</p> <p>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).</p> <p>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.</p>
Component Carcinogenicity	
Crystalline Silica, Quartz	<p>ACGIH: Suspected Human Carcinogen</p> <p>NIOSH: Potential Occupational Carcinogen</p> <p>NTP: Known Human Carcinogen</p> <p>IARC: Monograph 100C [2012] Crystalline silica in the form of quartz Or cristobalite is carcinogenic to humans (Group 1)</p>



Safety Data Sheet

Sand and/or Gravel

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

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
HMIS	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		



Safety Data Sheet

Sand and/or Gravel

- HMIS:** Health-1, Flammability-0, Reactivity-0
- HMIS Definitions:** 0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Extreme
- Protective Equipment:** Safety glasses, gloves, impervious clothing, and boots (respirator if cutting/sawing hardened concrete)

The information in this Safety Data Sheet concerning health hazard data was obtained from sources believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness. Once this product leaves our facility, the conditions or methods of handling, storage, use and disposal of the product are beyond Advanced Concrete's control and may be beyond our knowledge. For this and other reasons, LYCON Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Revision 1

March 25, 2019