



NATURAL SAND AND GRAVEL

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Natural Sand and Gravel
 Chemical Name None
 CAS No. None
 Trade Name(s) Construction aggregate

Relevant identified uses of the substance or mixture and uses advised against
 Identified Use(s) Construction Material
 Uses Advised Against None.

Details of the supplier of the safety data sheet

Company Identification Thelen Sand & Gravel, Inc.
 28955 W. Route 173
 Antioch, IL 60002

TelephoneA (847) 395-3313

Emergency telephone number

Emergency Phone No. Not classified as dangerous for supply/use. Please contact the supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) / GHS Classification Not classified as dangerous for supply/use. Unlikely to be hazardous by inhalation unless present as a dust.

Label elements

Hazard Symbol None
 Signal Word(s) None
 Hazard Statement(s) None
 Precautionary Statement(s) None

Other hazards

Inhalable size dust particles may be released under certain conditions of handling. This dust may contain crystalline silica dust which: Causes damage to organs: Lungs (silicosis) and May cause cancer: Lungs

Additional Information

Control dust formation. Avoid breathing dust. As necessary, wear eye and/or respiratory protection (safety glasses and dust mask).
 Wash hands and exposed skin after use.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	% wt.	CAS No.
Natural Sand and Gravel*	100	-----

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. Please see Section 8 of SDS for more details.

- Contains: Dust may contain >1% crystalline silica (inherent in the sand / gravel).

Additional Information - None



NATURAL SAND AND GRAVEL

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Not normally required. Move person to fresh air. Apply artificial respiration if necessary. If symptoms persist, obtain medical attention.
Skin Contact	Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Not normally required. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
Most important symptoms and effects, both acute and delayed	None known
Indication of any immediate medical attention and special treatment needed	None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture	None known
--	------------

Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
---------------------------------	--

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Not normally required.
Environmental precautions	Not normally required.
Methods and material for containment and cleaning up	Not normally required.
Reference to other sections	None
Additional Information	None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Inhalable size dust particles may be released under certain conditions of handling. Control dust formation. Avoid breathing dust. As necessary, wear eye and/or respiratory protection (safety glasses and dust mask).
--------------------------------------	--

Conditions for safe storage, including any incompatibilities	
-Storage temperature	Ambient temperatures.
-Incompatible materials	Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters



NATURAL SAND AND GRAVEL

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA) *	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Crystalline Silica (respirable particulate)	-----	$\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$	0.025 mg/m ³ ^	-----	-----	See below

^Suspected Human Carcinogen; *Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method

NIOSH 0500 (Total Dust); NIOSH 7500 (Crystalline Silica)

Exposure controls

Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Personal protection equipment

Eye/face protection



The following to be used as necessary: Safety Glasses

Skin protection (Hand protection/ Other)



The following to be used as necessary: Leather or thick textile gloves.

Respiratory protection



Inhalable size dust particles may be released under certain conditions of handling. Respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator with combination organic vapor cartridge / particulate filter may be sufficient. Check with protective equipment manufacturer's data.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid
Color.	earthy tan and gray colors
Odor	None
Odor Threshold (ppm)	Not applicable.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	Non-combustible
Evaporation Rate	Not available.
Flammability (solid, gas)	Non-combustible
Explosive Limit Ranges	Non-combustible
Vapor pressure (Pascal)	Not applicable.
Vapor Density (Air=1)	Not applicable.
Density (g/ml)	Not available.
Solubility (Water)	Insoluble
Solubility (Other)	Not known
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Non-combustible
Decomposition Temperature (°C)	Not available.



NATURAL SAND AND GRAVEL

Kinematic Viscosity (cSt) @ 40°C
 Explosive properties
 Oxidizing properties

Not applicable.
 Not explosive.
 Not oxidizing.
 Not available.

Other information

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.
Chemical stability Stable.
Possibility of hazardous reactions None known
Conditions to avoid Incompatible materials
Incompatible materials Acids and Oxidizers
Hazardous decomposition product(s) None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Crystalline Silica (quartz and cristobalite)

Acute toxicity LD50 (rat): >5000 mg/kg bw
 LD50 (dermal): >2000 mg/kg bw
 LC50 (inhalation, fume): >94.4 mg/m³ - Causes damage to organs: Lungs (silicosis)

Irritation/Corrosivity Not to be expected
 Sensitization Not to be expected

Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure: Lungs (silicosis)

Carcinogenicity May cause cancer. Lungs

NTP	IARC	ACGIH	OSHA
No.	Yes.	A2	Yes.

Mutagenicity Not to be expected.
 Reproductive toxicity Not to be expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term LL50 (48 hour): >1000 mg/l (Fish)
 LL50 (48 hour): >1000 mg/L (Aquatic Invertebrates)
 EL50 (48 hour): >1000 mg/L (Aquatic Plants)

Long Term No data

Persistence and degradability The substance is non biodegradable.
Bioaccumulative potential The product has no potential for bioaccumulation.
Mobility in soil The product has low mobility in soil.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information None known.



NATURAL SAND AND GRAVEL

SECTION 14: TRANSPORT INFORMATION

Ground or Water Domestic Voyage (DOT): Not classified as dangerous for transport.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories: None

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

Additional Information

The following sections contain revisions or new statements: 1-16.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. The manufacturer gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. The manufacturer accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.