



CRUSHED CONCRETE

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name: Crushed Concrete
CAS No.: Mixture
Trade Name(s): Recycled Concrete, Reclaimed Concrete

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
Telephone: (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.
Crushed concrete ^	100	-----

^Contains: <0.1% hexavalent chromium (CrVI) metals and salts.

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.

- Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

Additional Information - None



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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. Get immediate 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
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Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
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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	Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust. Avoid breathing dust. Wear suitable respiratory protective equipment if processing involves working in areas where dusts are likely to be evolved.
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Conditions for safe storage, including any incompatibilities

-Storage temperature	Ambient temperatures.
-Incompatible materials	Strong oxidizing agents.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits: Applicable only to heated product or milling, cutting, chipping of the product.

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

⁽¹⁾ Inhalable benzene-soluble fraction; ^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 7500 (Crystalline Silica)

Exposure controls

Appropriate engineering controls

Not normally required.

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: Impervious gloves and boots.



Respiratory protection

In case of milling, cutting, chipping of the product, respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator may be sufficient. Check with protective equipment manufacturer's data.



Thermal hazards

Not normally required.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid
Color.	Grey
Odor	None
Odor Threshold (ppm)	Not available.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	Not applicable.
Boiling point/boiling range (°C):	Not applicable.
Flash Point (°C)	Non-combustible.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Non-combustible.
Vapor pressure (Pascal)	Not applicable.
Vapor Density (Air=1)	Not applicable.
Density (g/ml)	~ 2.0 - 2.5
Solubility (Water)	Negligible
Solubility (Other)	Not known



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Partition Coefficient (n-Octanol/water)
 Auto Ignition Point (°C)
 Decomposition Temperature (°C)
 Kinematic Viscosity (cSt) @ 40°C
 Explosive properties
 Oxidizing properties

Not applicable.
 Non-combustible.
 Not applicable.
 Not available
 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 May react violently with: strong acids
Conditions to avoid Incompatible materials
Incompatible materials Strong acids
Hazardous decomposition product(s) None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Cured Concrete:

Acute toxicity Not acutely toxic
 Irritation/Corrosivity Dust may cause eye irritation or mechanical injury
 Sensitization Not to be expected.
 Repeated dose toxicity Not to be expected.
 Carcinogenicity Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	Yes.*	No.	No.

Mutagenicity Not to be expected.
 Reproductive toxicity Not to be expected.
 Other information * Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

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 Not acutely toxic
 Long Term Not to be expected.

Persistence and degradability

The product is not biodegradable.



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Bioaccumulative potential
Mobility in soil
Results of PBT and vPvB assessment
Other adverse effects

The product has no potential for bioaccumulation.
 The product has low mobility in soil.
 Not classified as PBT or vPvB.
 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.

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:

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.

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