

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 06/20/2017 Date of Issue: 06/20/2017

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture

Product Name: Recycled Concrete

1.2. Intended Use of the Product

Use of the Substance/Mixture: No use specified.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Elmhurst-Chicago Stone Company 400 West First Street Elmhurst, IL 60126-0057 630-832-4000

1.4. Emergency Telephone Number

Emergency Number

: 630-832-4000

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture		
GHS-US Classification		
Skin Irrit. 2	H315	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
Carc. 1A	H350	
STOT RE 1	H372	
Full text of hazard classes a	and H-statements : see section 16	
2.2. Label Elements		

GHS-US Labeling

Hazard Pictograms (GHS-US)



: H315 - Causes skin irritation.

(inhalation).

Signal Word (GHS-US)	
Hazard Statements (GHS-US)	

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.

H317 - May cause an allergic skin reaction.H318 - Causes serious eye damage.H350 - May cause cancer (inhalation).

P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapors, mist, or spray.

H372 - Causes damage to organs (lungs) through prolonged or repeated exposure

- P264 Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves, protective clothing, and eye protection.
- P302+P352 If on skin: Wash with plenty of water.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see section 4 on this SDS).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.
- P308+310+313 If exposed or concerned: Get medical advice/attention.

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Immediately call a poison center or doctor.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Can react with water to form caustic calcium hydroxide.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture	
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Name	Product Identifier	%	GHS-US classification
Limestone	(CAS-No.) 1317-65-3	30 - 90	Not classified
Slags, ferrous metal, blast furnace	(CAS-No.) 65996-69-2	< 50	Not classified
Ashes, residues	(CAS-No.) 68131-74-8	<= 20	Eye Irrit. 2B, H320
Cement, portland, chemicals	(CAS-No.) 65997-15-1	2 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Natural Sand	(CAS-No.) Not Applicable	< 2.5	Not classified
Gravel	(CAS-No.) Not Applicable	< 2.5	Not classified
Quartz	(CAS-No.) 14808-60-7	< 1.5	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes skin irritation. Causes serious eye damage. Skin sensitization. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Dry sawing or grinding of concrete masonry products may result in the release of respirable crystalline quartz. Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis which

can be progressive and may lead to death.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Wet concrete is alkaline and is incompatible with acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO₂). Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C, it can change to a form of crystalline silica known as trydimite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as trydimite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Cutting, crushing or grinding cement clinker, hardened cement, concrete 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 below.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid contact with eyes, skin and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Aluminum. Ammonium salts.

7.3. Specific End Use(s)

No use specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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Cement, port	land, chemicals (65997-15-1)	
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no asbestos and <1%
00,17,000		crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
Limestone (1	317-65-3)	
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
Quartz (1480	8-60-7)	
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m³
Silica, crystal	line (general form)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m ³ (excludes construction work, agricultural operations, and
		exposures that result from the processing of sorptive clays)
Particulates r	not otherwise classified (PNOC)	
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m ³ Respirable fraction
		10 mg/m ³ Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m ³ Respirable fraction
		15 mg/m ³ Total Dust

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

especially in confined areas. Ensure all national/local regulations are observed.Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



- Materials for Protective Clothing Hand Protection Eye and Face Protection Skin and Body Protection Respiratory Protection
- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information	: When using, do not eat, drink or smoke.	
SECTION 9: PHYSICAL AND C	HEMICAL PROPERTIES	
9.1. Information on Basic F	hysical and Chemical Properties	
Physical State	: Solid	
Appearance	: No data available	
Odor	: No data available	
Odor Threshold	: No data available	
рН	: No data available	

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Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
0.2 Other Information No additional informati	ion available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Wet concrete is alkaline and is incompatible with acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials. Avoid dust formation.

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Aluminum. Ammonium salts.

10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Ashes, residues (68131-74-8)		
LD50 Oral Rat	> 2000 mg/kg	
Quartz (14808-60-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg	
Slags, ferrous metal, blast furnace (65996-69-2)		
LD50 Oral Rat	> 2000 mg/kg	
LD50 Dermal Rat	> 4000 mg/kg	
LC50 Inhalation Rat	> 230.1 mg/m ³ (Exposure Time: 6 h; Species: Wistar)	

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer.

ſ	Quartz	(14808-60-7)
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IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Silica, crystalline (general form)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Depreductive Tevisitu Net elessified	

Reproductive Toxicity: Not classified

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Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Dry sawing or grinding of concrete masonry products may result in the release of respirable crystalline quartz. Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Acute or rapidly

developing silicosis may occur in a short period of time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

: Not classified. **Ecology - General**

12.2. Persistence and Degradability

Recycled Concrete Persistence and Degradability

Not established

12.3. **Bioaccumulative Potential**

Recycled Concrete

Not established.

12.4. Mobility in Soil No additional information available

12.5. **Other Adverse Effects**

Bioaccumulative Potential

Other Information

: Avoid release to the environment. SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste Treatment Methods**

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was

authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

- 14.1. In Accordance with DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. **US Federal Regulations**

Recycled Concrete		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
	Delayed (chronic) health hazard	
Cement, portland, chemicals (65997-15-1)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Limestone (1317-65-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Ashes, residues (68131-74-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Quartz (14808-60-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Slags, ferrous metal, blast furnace (65996-69-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

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Silica, crystalline (general form) (Not Applicable)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.
ement, portland, chemicals (65997-15-1)	
J.S Massachusetts - Right To Know List	
I.S New Jersey - Right to Know Hazardous Substand	ce List
I.S Pennsylvania - RTK (Right to Know) List	
imestone (1317-65-3)	
I.S Massachusetts - Right To Know List	
.S New Jersey - Right to Know Hazardous Substand	ce List
.S Pennsylvania - RTK (Right to Know) List	
luartz (14808-60-7)	
I.S Massachusetts - Right To Know List	
J.S New Jersey - Right to Know Hazardous Substand	ce List
J.S Pennsylvania - RTK (Right to Know) List	
ECTION 16: OTHER INFORMATION, INCLUD	ING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision	: 06/20/2017
Other Information	: This document has been prepared in accordance with the SDS
	requirements of the OSHA Hazard Communication Standard 29 CFR
	1910.1200
HS Full Text Phrases:	
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
L	Causes serious eye damage
H318	, .
H318 H320	Causes eye irritation
H320	
	Causes eye irritation May cause respiratory irritation May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)