

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 02/14/2014 Revision date: 11/13/2015 Version: 1.0

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Sakrete Roof Tile Mortar
	Sakrete Glass Block Mortar
	Sakrete Trowel Grade Leveler& Underlayment
	Sakrete Sand Mix
	Sakrete Stoneworks Mix
	Sakrete Stoneworks Stone Veener Mortar Dry Stack Gray
	Sakrete Stoneworks Stone Veener Mortar Dry Stack Buff
	stance or mixture and uses advised against
Use of the substance/mixture	: Various.
1.3. Details of the supplier of the safety	data sheet
Sakrete of North America 8201 Arrowridge Blvd. 28273 Charlotte, NC – USA T 866-725-7383	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
GHS-US classification	
Acute toxicity 4 (Oral) Skin Irritation 2 Serious Eye Damage 1 Skin Sensitization 1 Carcinogenicity 1A Specific Target Organ Toxicity After Single Expo Specific Target Organ Toxicity After Repeated E	
2.2. Label elements	
GHS-US labelling Hazard pictograms (GHS-US)	

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- : Danger
- : Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.
- : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Other hazards not contributing to the	
classification	

2.4. Unknown acute toxicity (GHS-US)

Sakrete Trowel Grade Leveler & Underlayment: 66 % of the mixture consists of ingredient(s) of unknown acute toxicity. Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray): 17 % of the mixture consists of ingredient(s) of unknown acute toxicity. Sakrete Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff): 16 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Sakrete Roof Tile Mortar: 15 % of the mixture consists of ingredient(s) of unknown acute toxicity. Sakrete Glass Block Mortar; Sakrete Sand Mix: 11 % of the mixture consists of ingredient(s) of unknown acute toxicity.

: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2	Mi	xtu	re

Name	Product identifier	%	GHS-US classification
Quartz	(CAS No) 14808-60-7	20 - 80	Acute Tox. 4 (Oral) Carc. 1A STOT RE 1
Plaster of Paris	(CAS No) 26499-65-0	30 - 60 ²	Not classified
Cement, portland, chemicals	(CAS No) 65997-15-1	10 - 30	Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 STOT SE 3
Calcium magnesium hydroxide (CaMg(OH)4)	(CAS No) 39445-23-3	3 - 7 ¹	Skin Irrit. 2 Eye Dam. 1 STOT SE 3
Calcium magnesium hydroxide oxide (CaMg(OH)2O)	(CAS No) 58398-71-3	3 - 7 ¹	Skin Irrit. 2 Eye Dam. 1 STOT SE 3
Calcium oxide	(CAS No) 1305-78-8	1 - 5	Skin Irrit. 2 Eye Dam. 1 STOT SE 3
Calcium hydroxide	(CAS No) 1305-62-0	1 - 5 ¹	Eye Dam. 1 Skin Corr. 1B
Calcium sulfate	(CAS No) 7778-18-9	1 - 5	Not classified
Limestone	(CAS No) 1317-65-3	1 - 5	Not classified
Iron oxide (Fe2O3)	(CAS No) 1309-37-1	1 - 5 ³	Not classified
Magnesium oxide (MgO)	(CAS No) 1309-48-4	1 - 5 ³	Not classified
Magnesium hydroxide	(CAS No) 1309-42-8	1 - 5 ¹	Not classified

² Sakrete Trowel Grade Leveler & Underlayment

³ Sakrete Roof Tile Mortar; Sakrete Glass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measure	S
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never giv anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitisation by skin contact.
Symptoms/injuries after eye contact	: Causes serious eye damage. May cause burns in the presence of moisture. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
11/12/2015	EN (English) 2/0

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Symptoms/injuries after ingestion : Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Treat for surrounding material.			
Unsuitable extinguishing media	: Not available.			
5.2. Special hazards arising from the	5.2. Special hazards arising from the substance or mixture			
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.			
5.3. Advice for firefighters				
Firefighting instructions	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).			
SECTION 6: Accidental release me	easures			
6.1. Personal precautions, protective	equipment and emergency procedures			
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.			
6.2. Methods and material for contain	ment and cleaning up			
For containment	: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).			
Methods for cleaning up	: Vacuum or sweep material and place in a disposal container.			
6.3. Reference to other sections				
No additional information available.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Do not swallow. Avoid contact with skin and eyes. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle and open container with care. When using do not eat, drink or smoke.			
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.			
7.2. Conditions for safe storage, inclu	ding any incompatibilities			
Storage conditions	: Keep out of the reach of children. Store in dust-tight, dry, labelled containers. Keep container tightly closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers.			

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)			
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	$(30)/(\%SiO_2 + 2) mg/m^3 TWA, total dust$ (250)/(%SiO_2 + 5) mppcf TWA, respirable fraction (10)/(%SiO_2 + 2) mg/m ³ TWA, respirable fraction	
Cement, portland, chemicals	s (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³	
Calcium oxide (1305-78-8)			
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m ³	
Calcium hydroxide (1305-62-0)			
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Calcium hydroxide (*	1305-62-0)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
Calcium sulfate (777	8-18-9)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³
Limestone (1317-65-3	3)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³
Iron oxide (Fe2O3) (1	309-37-1)	
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³
Magnesium oxide (M	gO) (1309-48-4)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³
Magnesium hydroxic	le (1309-42-8)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
Plaster of Paris (2649	99-65-0)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (total); 5 mg/m ³ (respirable)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total); 5 mg/m ³ (respirable)
3.2. Exposure co	ntrols	
Appropriate engineering		e to keep exposures (airborne levels of dust, fume, vapor, etc.) belo e limits.
land protection	Wear suitable waterprod	of aloves

Hand protection Eye protection	 Wear suitable waterproof gloves. Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection	: Wear suitable waterproof protective clothing.
Respiratory protection	: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

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b	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Colour	: Various.	
Odour	: Characteristic.	
Odour threshold	: No data available.	
pH	: 12–13	
Relative evaporation rate (butylacetate=1)	: No data available.	
Melting point	: No data available.	
Freezing point	: No data available.	
Boiling point	: No data available.	
Flash point	: No data available.	
Self ignition temperature	: No data available.	
Decomposition temperature	: No data available.	
Flammability (solid, gas)	: Not flammable.	

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

9.2. **Other information**

VOC content

: 0%, Not applicable; 0 wt, Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability 10.2.

Stable under normal storage conditions. Keep dry in storage.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. **Conditions to avoid**

Incompatible materials. Moisture.

Incompatible materials 10.5.

Wet cement is alkaline and incompatible with acid, ammonium salts and aluminum metal.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Harmful if swallowed.

Sakrete Roof Tile Mortar; Sakrete Glass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix; Sakrete Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray); Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff)	
LD50 oral rat	563 - 741 mg/kg
LD50 dermal rabbit	No data available.
LC50 inhalation rat (mg/l)	No data available.
Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg
Calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg
Calcium hydroxide (1305-62-0)	
LD50 oral rat	7340 mg/kg
Calcium sulfate (7778-18-9)	
LD50 oral rat	> 3000 mg/kg
Limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg
Iron oxide (Fe2O3) (1309-37-1)	
LD50 oral rat	> 10000 mg/kg
Magnesium oxide (MgO) (1309-48-4)	
LD50 oral rat	> 5000 mg/kg
Magnesium hydroxide (1309-42-8)	
LD50 oral rat	8500 mg/kg
11/13/2015	EN (English) 5/

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: May cause cancer.
Quartz (14808-60-7)	
IARC group	1
National Toxicity Program (NTP) Status	2
Iron oxide (Fe2O3) (1309-37-1)	
IARC group	3
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (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 th severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitisation by skin contact.
Symptoms/injuries after eye contact	Causes serious eye damage. May cause burns in the presence of moisture. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.
12.2. Persistence and degradability	

Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray); Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Sakrete Roof Tile Mortar; Sakrete Glass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix; Sakrete Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray); Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
Sakrete Roof Tile Mortar; Sakrete Glass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix; Sakrete Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray); Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff)		
Ecology - soil	No data available.	
12.5. Other adverse effects		
Other adverse effects :	No data available.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		

Waste disposal recommendations

: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

according to the Hazard Communication Stand	Jard (CFR29 1910.1200) HazCom 2012.
SECTION 14: Transport infor	mation
In accordance with DOT	
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory info	rmation
15.1. US Federal regulations	
Quartz (14808-60-7)	
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
Cement, portland, chemicals (6599	7-15-1)
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
Calcium oxide (1305-78-8)	
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
Calcium magnesium hydroxide (Ca	aMg(OH)4) (39445-23-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Calcium magnesium hydroxide oxi	ide (CaMg(OH)2O) (58398-71-3)
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
Calcium hydroxide (1305-62-0)	
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
Calcium sulfate (7778-18-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Limestone (1317-65-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Iron oxide (Fe2O3) (1309-37-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Magnesium oxide (MgO) (1309-48-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Magnesium hydroxide (1309-42-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
15.2. US State regulations	
	ass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix; Sakrete
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Sakrete Roof Tile Mortar; Sakrete Glass Block Mortar; Sakrete Trowel Grade Leveler & Underlayment; Sakrete Sand Mix; Sakrete Stoneworks Mix; Sakrete Stoneworks Stone Veener Mortar Dry Stack (Gray); Sakrete Stoneworks Stone Veener Mortar Dry Stack (Buff)	
State or local regulations	This product contains Crystalline Silica, Quartz and may also contain other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

IARC (I)	International Agency for Research on Cancer.
	 Carcinogenic to humans; Probably carcinogenic to humans; Possibly carcinogenic to humans; Not classifiable; Probably not carcinogenic to humans.
NTP (N)	National Toxicology Program.
	 Evidence of Carcinogenicity; Known Human Carcinogens; Reasonably anticipated to be Human Carcinogen; Substances delisted from report on Carcinogens; Twelfth Report - Items under consideration.

SECTION 16: Other Informat	ion
Indication of changes	: None.
Other information	: None.
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur. $3 $
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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