

# SAFETY DATA SHEET

# 1. Identification

Product identifier	CTS Construction Grout
Other means of identification	
Product code	160010050
Recommended use	Industrial use.
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.
Manufacturer/Importer/Supplie	er/Distributor information
Company name	CTS Cement Manufacturing Corporation
Address	12442 Knott Street
	Garden Grove, CA 92841
	United States
Telephone	1-800-929-3030
E-mail	info@ctscement.com
Contact person	Safety Officer
Emergency telephone number	1-800-929-3030 (8 AM - 5 PM)
2 Hazard(s) identification	

#### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health Hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1A
	Specific Target Organ Toxicity, Single Exposure	Category 3 respiratory tract irritation
	Specific Target Organ Toxicity, Repeated Exposure	Category 2 (Lungs)
	Not classified.	
OSHA defined bazards		

OSHA defined hazards

#### Label elements



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Signal word	Danger	
Hazard statement	Causes skin irritation. Causes serious eye damage. May cause allergic skin reaction. May cause cancer. May cause respiratory irritation.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If exposed or concerned: Get medical advice/attention. 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 on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.	
Storage	Keep container tightly closed. Store in dry location.	

## 3. Composition/information on ingredients

Mixtures			
Chemical name		CAS number	%
Portland Cement		65997-15-1	50-70
Silica, Quartz		14808-60-7	40-50
Calcium Sulfoaluminate Cem	ent	960375-09-1	0-5
Composition comments	All concentrations are in percent by weight percent by volume.	unless ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.		
Ingestion	If ingested may result in stomach and intestinal blockage. Drinking gelatin solutions or large volum of water may delay setting. Call an ambulance and take these instructions. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and t Symptoms may be delayed.	reat symptomatically. Keep vic	im under observation.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Sh this safety data sheet to the doctor in attendance.		

# 5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains or water courses.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in dry location. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Portland Cement (CAS 65997-15-1)	PEL	5 mg/m3 15 mg/m3	Respirable fraction Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)			

# ComponentsTypeValueFormSilica, quartz (CASTWA0.1 mg/m3Respirable.14808-60-7)2.4 mppcf0.3 mg/rRespirable.Total dust.Portland Cement (CAS 65997-15-1)TWA50 mppcf

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Silica, quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Portland Cement (CAS 65997-15-1) US. NIOSH: Pocket Guide to Chemical	TWA Hazards	1 mg/m3	Respirable fraction.
Components	Туре	Value	Form
Silica, quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m3 10 mg/m3	Respirable dust. Total

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
Appropriate engineering controls CTS Construction Grout	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation SDS US
Version #: 02 Revision d	ate: - Issue date: 4-June-2018 3 / 8

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been	established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures	s, such as personal protective equipment
Eye/face protection	Wear safety glasses or safety goggles unless full face respirator is in use.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Powder.
Color	Gray.
Odor	Low.
Odor threshold	Not available.
рН	11 – 13 when wet
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.7-3.1 @ 20°C
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	2460 °F (1350 °C)
Viscosity	Not applicable.
Other information	
Bulk density	60 lb/ft <sup>3</sup>
Partition coefficient	(oil/water)
	Not applicable.
VOC (Weight %)	0 g/l when mixed with water

## 10. Stability and reactivity CTS Construction Grout

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials	Powerful oxidizers. Acids. Crystalline silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride.
Hazardous decomposition products	Carbon oxides. Sulfur oxides. Silicium oxide.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. Prolonged contact with wet cement/mixture may cause burns.
Eye contact	Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.
Ingestion	Swallowing may cause gastrointestinal irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.
Information on toxicological effe	cts
Acute toxicity	May cause respiratory irritation.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	May cause cancer. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall E	valuation of Carcinogenicity	
Silica, quartz (CAS 14808-60-7) NTP Report on Carcinogens		1 Carcinogenic to humans.
Silica, quartz (CAS 14808- OSHA Specifically Regulated Not listed.	60-7) Substances (29 CFR 1910.100	Known To Be Human Carcinogen. <b>)1-1050)</b>
Reproductive toxicity	May damage fertility or the unb	orn child.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (	Lungs) through prolonged or repeated exposure.
Aspiration hazard	Due to the physical form of the	product it is not an aspiration hazard.
Chronic effects	Prolonged or repeated exposur disorders if contact is repeated	e may cause lung injury, including silicosis. May cause skin or prolonged.
12. Ecological information		

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Annex II of MARPOL 73/78 and

# the IBC Code

Not applicable.

#### 15. Regulatory information

#### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed.	
Superfund Amendments and	d Reauthorization Act of 1986
(SARA) Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazard Not listed.	ous substance
SARA 311/312 Hazardous chemical	
Yes	
SARA 313 (TRI reporting) Not listed.	
Other federal regulations	
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Silica, quartz (CAS 14 Portland Cement (CA	4808-60-7) S 65997-15-1) and Community Right-to-Know Act 4808-60-7)
Silica, quartz (CAS 14 Portland Cement (CA US. Rhode Island RTK	4808-60-7)
Not regulated	_
US. California Proposition 6	
	ion 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Silica, quartz (CAS 14	
	-
CANCER and R	EPRODUCTIVE HARM - <u>www.P65Warnings.ca.gov</u>
International Inventories	

#### International Inventories

Country(s) or region Inv

# Inventory name

On inventory (yes/no)\*

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Disclaimer	CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this	
<b>_</b>		
	Flammability: 0 Physical hazard: 0	
HMIS <sup>®</sup> ratings	Health: 3*	
Version #	01	
Revision date	-	
Issue date	4-June-2018	

CTS Construction Grout

information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.