# SAFETY DATA SHEET



### 1. Identification

**Product identifier** Rapid Set TRU PC Polished Concrete

Other means of identification

180010050 Product code 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/Supplier/Distributor information

CTS Cement Manufacturing Corporation Company name

11065 Knott Ave Suite A **Address** Cypress, CA 90630

**United States** 

1-800-929-3030 Telephone

E-mail jsalkowski@ctscement.com / info@ctscement.com

John Salkowski Contact person

**Emergency telephone** 

number

1-800-929-3030 (8 AM - 5 PM)

## 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 Reproductive toxicity Category 1B

Specific Target Organ Toxicity, Single Category 3 respiratory tract irritation

Exposure

Specific Target Organ Toxicity, Repeated

Exposure

Category 2 (Lungs)

**OSHA** defined hazards

Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes skin irritation. Causes serious eye damage. May cause cancer. May cause respiratory

irritation. May cause damage to organs (Lungs) through prolonged or repeated exposure.

**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.

Keep container tightly closed and store in a dry location. Storage

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Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%		
Calcium Sulfoaluminate Cement	960375-09-1	20-40		
Silica, quartz	14808-60-7	40-56		
Amorphous Silica; Silica dioxide	61790-53-2	10-18		
Limestone	1317-65-3	0.1-8		
Calcium Hydroxide; Slaked Lime; Hydrated Lime	1305-62-0	0.1-3		
Anhydrous Calcium Sulfate	7778-18-9	0.5-2		
Lithium Carbonate	554-13-2	554-13-2 <0.3		

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 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

Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions. Get medical attention if symptoms occur.

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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 treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**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. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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
Specific methods

General fire hazards

Move containers from fire area if you can do so without risk

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

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### 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**

# 7. Handling and storage Precautions for safe handling

Avoid discharge into drains or water courses.

**Type** 

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

Keep container tightly closed and store in a dry location. Store away from incompatible materials (see Section 10 of the SDS).

Value

Form

# 8. Exposure controls/personal protection

### Occupational exposure limits

Components

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	1 ype		value	
Anhydrous Calcium Sulfate (CAS 7778-18-9)	PEL		5 mg/m3	Respirable fraction.
			15 mg/m3	Total dust.
Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0)	PEL		5 mg/m3	Respirable fraction.
,			15 mg/m3	Total dust.
Limestone (CAS 1317-65-3)	PEL		5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CFR 1910.100	00)			
Components	Туре		Value	Form
Amorphous Silica; Silica dioxide (CAS 61790-53-2)	TWA	0.8 mg/m3		
,			20 mppcf	
Silica, quartz (CAS 14808-60-7)	TWA		0.3 mg/m3	Total dust.
•			0.1 mg/m3	Respirable.
			2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values	T			Form
Components	Туре		Value	Form
Anhydrous Calcium Sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.	TWA 5 mg/m3
Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0) Silica, quartz (CAS	TWA		0.025 mg/m3	Respirable fraction.
14808-60-7)				
IS. NIOSH: Pocket Guide to Chemical	Hazards			
Components	Туре		Value	Form
Amorphous Silica; Silica dioxide (CAS 61790-53-2)	REL		6 mg/m3	

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Components	Туре	Value	Form
	TWA	6 mg/m3	
Anhydrous Calcium Sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0)	TWA	5 mg/m3	
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Silica, quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

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

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, 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, 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. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Powder.
Color Gray.
Odor Low.

Odor thresholdNot available.pH11-12 when wetMelting point/freezing pointNot applicable.Initial boiling point and boilingNot applicable.

range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Non combustible.

Upper/lower flammability or explosive limits

Flammability limit – lower

(%)

Not applicable.

Flammability limit – upper

Not applicable.

(%)

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Not applicable. Vapor pressure Not applicable. Vapor density 2.98 @ 20℃ Relative density

Solubility(ies)

Solubility (water) Not available. Not applicable. Partition coefficient

(n-octanol/water)

**Auto-ignition temperature** Not applicable. 2462 °F (1350 °C) **Decomposition temperature** Not applicable. **Viscosity** 

Other information

**Bulk density** 60 lb/ft3

Partition coefficient

(oil/water)

Not applicable.

VOC (Weight %) 8 g/l when mixed with water

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible Conditions to avoid materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Powerful oxidizers. Incompatible materials

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 effects

Acute toxicity May cause respiratory irritation.

Components Species **Test Results** 

Anhydrous Calcium Sulfate (CAS 7778-18-9)

Acute

Inhalation

Rat > 3.26 mg/l, 4 Hours LC50

Oral

LD50 Mouse 4704 mg/kg

> Rat > 1581 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage. Respiratory or skin sensitization

No data available. Respiratory sensitization No data available. Skin sensitization

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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

## IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica; Silica dioxide (CAS 61790-53-2) 3 Not classifiable as to carcinogenicity to humans.

Silica, quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Silica, quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

silica should be monitored and controlled.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

May cause respiratory irritation.

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 exposure may cause lung injury, including silicosis. May cause skin

disorders if contact is repeated 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 available. Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects

No data is available on the degradability of this product.

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.

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#### IATA

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)

Not listed.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### Superfund Amendments and 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 hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

## SARA 313 (TRI reporting)

Not regulated.

#### 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.

### **US. Massachusetts RTK - Substance List**

Amorphous Silica; Silica dioxide (CAS 61790-53-2) Anhydrous Calcium Sulfate (CAS 7778-18-9)

Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0)

Limestone (CAS 1317-65-3) Lithium Carbonate (CAS 554-13-2) Silica, quartz (CAS 14808-60-7)

### US. New Jersey Worker and Community Right-to-Know Act

Amorphous Silica; Silica dioxide (CAS 61790-53-2) Anhydrous Calcium Sulfate (CAS 7778-18-9)

Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0)

Limestone (CAS 1317-65-3) Lithium Carbonate (CAS 554-13-2) Silica, quartz (CAS 14808-60-7)

# US. Pennsylvania Worker and Community Right-to-Know Law

Amorphous Silica; Silica dioxide (CAS 61790-53-2) Anhydrous Calcium Sulfate (CAS 7778-18-9)

Calcium Hydroxide; Slaked Lime; Hydrated Lime (CAS 1305-62-0)

Limestone (CAS 1317-65-3)

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Silica, quartz (CAS 14808-60-7)

#### **US. Rhode Island RTK**

Lithium Carbonate (CAS 554-13-2)

### **US. California Proposition 65**

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Lithium Carbonate (CAS 554-13-2) Silica, quartz (CAS 14808-60-7)

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*United States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

Issue date 04-September-2014

Revision date - 01

HMIS® ratings Health: 3\*

Flammability: 0 Physical hazard: 0

**Disclaimer** CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this

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.

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<sup>\*</sup>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).