1 IDENTIFICATION

Product identifier: Rapid Set NewCrete

Other means of identification:
- Product code: 193010025, 193010050, 193012000
- 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. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information
- Company name: CTS Cement Manufacturing Corporation
- Address: 12442 Knott St.
  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 HAZARDS 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

OSHA defined hazards: Not classified

Label elements
- Pictogram(s):
- 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.

Storage: Keep container tightly closed. Store in dry location.

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

Hazard(s) not otherwise classified (HNOC): None known.

3 COMPOSITIONS/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sulfoaluminate Cement</td>
<td>960375-09-1</td>
<td>25-70</td>
</tr>
<tr>
<td>Silica Sand</td>
<td>14808-60-70</td>
<td>30-50</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1309-37-1</td>
<td>0-1</td>
</tr>
<tr>
<td>Methanal</td>
<td>50-00-0</td>
<td>0-0.05</td>
</tr>
</tbody>
</table>

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.

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

Water fog. Dry chemical powder.

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting 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

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Quartz (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.3 mg/m³</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Methanal (CAS 50-00-0)</td>
<td>STEL</td>
<td>2 ppm</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.75 ppm</td>
<td>Respirable fraction</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Quartz (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Methanal (CAS 50-00-0)</td>
<td>CLV</td>
<td>0.3 ppm</td>
<td>Respirable fraction</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Quartz (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Methanal (CAS 50-00-0)</td>
<td>TWA</td>
<td>0.016 ppm</td>
<td>Respirable fraction</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Occupational exposure to nuisance dust (total and respirable) 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.

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 threshold | Not available |
| pH | 11 – 12 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 combustible |

Upper/lower flammability or explosive 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) | No applicable information available |
| Decomposition temperature | 2460 °F (1350 °C) |
10 Stability and Reactivity

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). Avoid humidity.

Incompatible materials

Powerful oxidizers.

Hazardous decomposition products


Thermal decomposition

No decomposition if stored and handled as prescribed/indicated.

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

May cause skin irritation. Prolonged contact with wet cement/mixture may cause burns.

Eye contact

May cause 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.

Skin corrosion/irritation

May cause skin irritation.
Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization
Based on available Data, the classification criteria are not met.

Skin sensitization
Based on available Data, the classification criteria are not met.

Germ cell mutagenicity
Based on available Data, the classification criteria are not met.

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 Evaluation of Carcinogenicity
NTP listed carcinogen.
Silica, quartz (CAS 14808-60-7) 1 Carcinogenic to Humans
Methanal (CAS 50-00-0) 1 Carcinogenic to Humans
The International Agency for Research on Cancer (IARC) has classified methanol as a Group 1 (known) human carcinogen based on epidemiological evidence linking methanol exposure to occurrence of nasopharyngeal cancer and leukemia. Current regulatory information is provided in this SDS. No adverse health effects are anticipated if recommended personal protective equipment and industrial hygiene practices are used.

NTP Report on Carcinogens
Silica, quartz (CAS 14808-60-7) Known to be human carcinogen
Methanal (CAS 50-00-0) Known to be human carcinogen

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed

Reproductive toxicity
May damage fertility to unborn children

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 exposure may cause lung injury. May cause skin sensitization in hypersensitive persons.

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.

ACUTE TOXICITY TO FISH: COMPONENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanal</td>
<td>LEUCISCUS IDUS</td>
<td>LC50 (48 HRS) &gt; 560 mg/l</td>
</tr>
</tbody>
</table>

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanal</td>
<td>DAPHNIA MAGNA</td>
<td>EC50 (48 HRS) &gt; 33.1 mg/l</td>
</tr>
</tbody>
</table>

TOXICITY TO BACTERIA: COMPONENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanal</td>
<td>BACTERIUM</td>
<td>EC10: 1800 mg/l</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data available.

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

<table>
<thead>
<tr>
<th>USDOT</th>
<th>Not regulated as dangerous goods.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
<td>Not regulated as dangerous goods.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated as dangerous goods.</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15 REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>US federal regulations</th>
<th>This product is a &quot;Hazardous Chemical&quot; as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>CERCLA Hazardous Substance List (40 CFR 302.4)</td>
<td></td>
</tr>
<tr>
<td>CAS Number</td>
<td>Chemical name</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Methanal</td>
</tr>
<tr>
<td>Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories</td>
<td></td>
</tr>
<tr>
<td>Immediate Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Delayed Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard – No</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard – No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard - No</td>
<td></td>
</tr>
<tr>
<td>SARA 311/312 Hazardous chemical</td>
<td>Yes</td>
</tr>
<tr>
<td>SARA 313 (TRI reporting)</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

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

#### US. Massachusetts RTK – Substance List

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, quartz</td>
<td>14808-60-7</td>
<td>30-50%</td>
</tr>
<tr>
<td>Methanal</td>
<td>50-00-0</td>
<td>&lt;= 0.05%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Concentration</th>
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<tbody>
<tr>
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<tr>
<td>Methanal</td>
<td>50-00-0</td>
<td>&lt;= 0.05%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Concentration</th>
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<tr>
<td>Methanal</td>
<td>50-00-0</td>
<td>&lt;= 0.05%</td>
</tr>
</tbody>
</table>

#### US. California Proposition 65

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

- Silica, quartz (CAS 14808-60-7)
- Methanal (CAS 50-00-0)

⚠️ **WARNING**
CANCER and REPRODUCTIVE HARM - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* 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 OF LAST REVISION

- **Issue date**: 28 December 2018
- **Revision date**: 28 December 2018
- **Version #**: 02
- **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.