



Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

Rapid Set Concrete Resurfacer

SECTION 1: Identification

Product identifier

Product name: Concrete Resurfacer
Product code: 193010025, 193010050

Recommended use of the product and restriction on use

Relevant identified uses: Use for cement applications
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details Manufacturer:

United States
CTS Cement Manufacturing Corporation 12442 Knott St.
Garden Grove, CA 92841 800-929-3030
info@ctscement.com

Emergency telephone number:

United States
INFOTRAC 1-800-535-5053
International
INFOTRAC 1-352-323-3500

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2
Serious eye damage, category 1
Specific target organ toxicity - single exposure, category 3,
respiratory irritation Carcinogenicity, category 1A
Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard Pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H350 May cause cancer.
H373 May cause damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P233 Keep container tightly closed.
- P281 Use personal protective equipment as required.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P362 Take off contaminated clothing and wash before reuse
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified:

None.

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|---------------------------|---------------------------------|----------|
| CAS number: 12004-14-7 | Aluminum calcium oxide sulfates | 5-30 |
| CAS number: 10034-77-2 | Dicalcium silicate | 10-40 |
| CAS number: 7778-18-9 | Calcium sulfate | 1-15 |
| CAS number: 14808-60-7 | Silica, crystalline quartz | 30-50 |

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

*Cement is primarily comprised of calcium compounds with oxides of aluminum, iron, sulfur, and silica. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis.

Trace constituents may include, but are not limited to, magnesium, potassium, sodium oxides, and hexavalent chromium.

SECTION 4: First aid measures**Description of first aid measures**



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General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway. Get medical advice/attention if you feel unwell. Take precautions to ensure your own safety. Remove source of exposure or move person to fresh air. Get medical advice if you feel unwell or concerned.

After skin contact:

Rinse affected area with soap and water. If symptoms develop or persist, seek medical attention. Take off all contaminated clothing. Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water. Get medical advice if skin irritation occurs or you feel unwell.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes. If symptoms develop or persist, seek medical attention. Avoid direct contact and wear chemical protective gloves, if necessary.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do so. Continue rinsing until medical aid is available. Immediately call a POISON CONTROL CENTER or seek medical attention.

After swallowing:

Rinse mouth thoroughly. Seek medical attention if irritation, discomfort, or vomiting persists.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion. Heating causes a rise in pressure, risk of bursting and combustion.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure air handling systems are operational. Wear protective eyewear, gloves, and

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clothing.

Environmental precautions:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves and clothing. Sweep or scoop up solid material while minimizing dust generation. Dispose of contents/container in accordance with local regulations.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage**Precautions for safe handling:**

Use only with adequate ventilation. Avoid breathing dust. Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Keep container dry. Store locked up. Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|---|------------|---|
| ACGIH | Silica, crystalline quartz (Respirable) | 14808-60-7 | ACGIH TLV TWA 0.025 mg/m ³ (Respirable fraction) |
| | Total Silica, crystalline quartz | 14808-60-7 | TWA 0.025000 mg/m ³ USA. ACGIH |
| United States (OSHA) | Silica, crystalline quartz (Respirable) | 14808-60-7 | OSHA 8-hour TWA PEL: 0.025 mg/m ³ (Respirable fraction, action level) |
| | Silica, crystalline quartz (Respirable) | 14808-60-7 | OSHA 8-hour TWA PEL: 0.05 mg/m ³ (Respirable fraction, exposure limit level) |
| | Total Silica, crystalline quartz | 14808-60-7 | TWA 30.000000 mg/m ³ / %SiO ₂ +2 USA. OSHA |
| | Total Silica, crystalline quartz | 14808-60-7 | TWA 0.050000 mg/m ³ USA. NIOSH |
| NIOSH | Silica, crystalline quartz (Respirable) | 14808-60-7 | NIOSH TWA 0.05 mg/m ³ |

Biological limit values:

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

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

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Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

| | |
|---|--------------------|
| Appearance | Solid; Gray powder |
| Odor | Low |
| Odor threshold | Not available |
| pH | 11 - 12 when wet |
| Melting point/freezing point | Not available |
| Initial boiling point/range | Not applicable |
| Flash point (closed cup) | Not available |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | Not available |
| Upper flammability/explosive limit | Not available |
| Lower flammability/explosive limit | Not available |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Density | Not available |
| Relative density | Not available |
| Solubilities | Not available |
| Partition coefficient (n-octanol/water) | Not available |
| Auto/Self-ignition temperature | Not available |
| Decomposition temperature | 2460° F (1350° C) |

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| | |
|----------------------|----------------|
| Dynamic viscosity | Not applicable |
| Kinematic viscosity | Not applicable |
| Explosive properties | Not available |
| Oxidizing properties | Not available |

Other information

| | |
|----------------|-----------------------------|
| VOC (Weight %) | 0 g/l when mixed with water |
|----------------|-----------------------------|

SECTION 10: Stability and reactivity**Reactivity:**

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

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:

Carbon oxides. Sulfur oxides. Silicium oxide.

SECTION 11: Toxicological information**Information on toxicological effects:****Acute toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Skin corrosion/irritation****Assessment:** Causes skin irritation.**Product data:** No data is available.**Substance data:**

| Name | Result |
|--------------------|-------------------------|
| Dicalcium silicate | Causes skin irritation. |

Serious eye damage/irritation**Assessment:** Causes serious eye damage.**Product data:** No data is available.

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| Name | Result |
|--------------------|----------------------------|
| Dicalcium silicate | Causes serious eye damage. |

Respiratory or skin sensitization**Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Carcinogenicity****Assessment:** May cause cancer.**Product data:** No data is available.**Substance data:**

| Name | Species | Result |
|---|----------------|--|
| Silica, crystalline quartz (Respirable) | Not applicable | Component may cause cancer. |
| Total Silica, crystalline quartz | | 1 - Group 1: Carcinogenic to humans (Quartz) |

International Agency for Research on Cancer (IARC):

| Name | Classification |
|---|----------------------------------|
| Silica, crystalline quartz (Respirable) | Group 1 - Carcinogenic to humans |

National Toxicology Program (NTP):

| Name | Classification |
|---|-------------------------------|
| Silica, crystalline quartz (Respirable) | Known to be human carcinogens |

Germ cell mutagenicity**Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Reproductive toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Specific target organ toxicity (single exposure)****Assessment:** May cause respiratory irritation**Product data:** No data is available.**Substance data:**

| Name | Result |
|--|-----------------------------------|
| Dicalcium silicate and calcium sulfate | May cause respiratory irritation. |

Aspiration toxicity**Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.

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Rapid Set Concrete Resurfacer**Information on likely routes of exposure:**

No data is available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

Other information:

No data is available.

SECTION 12: Ecological information**Acute (short-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Chronic (long-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Persistence and degradability****Product data:** No data available.**Substance data:** No data available.**Bioaccumulative potential****Product data:** No data available.**Substance data:** No data available.**Mobility in soil****Product data:** No data available.**Substance data:** No data available.**Other adverse effects:** No data available.**SECTION 13: Disposal considerations****Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information**United States Transportation of dangerous goods (49 CFR DOT)**

| | |
|-------------------------------|---------------|
| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

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Rapid Set Concrete Resurfacer**International Maritime Dangerous Goods (IMDG)**

| | |
|-------------------------------|---------------|
| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|-------------------------------|---------------|
| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

SECTION 15: Regulatory information**United States regulations Inventory listing (TSCA):**

| | | |
|------------|--------------------------------|--------|
| 12004-14-7 | Aluminum calcium oxide sulfate | Listed |
| 10034-77-2 | Dicalcium silicate | Listed |
| 7778-18-9 | Calcium sulfate | Listed |
| 14808-60-7 | Silica, crystalline quartz | Listed |

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

| | | |
|------------|---|--------|
| 14808-60-7 | Silica, crystalline quartz (Respirable) | Listed |
|------------|---|--------|

New Jersey Right to Know:

| | | |
|------------|---|--------|
| 14808-60-7 | Silica, crystalline quartz (Respirable) | Listed |
|------------|---|--------|

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| | | |
|------------|---|--------|
| 14808-60-7 | Silica, crystalline quartz (Respirable) | Listed |
|------------|---|--------|

Pennsylvania Right to Know:

| | | |
|------------|---|--------|
| 14808-60-7 | Silica, crystalline quartz (Respirable) | Listed |
|------------|---|--------|

California Proposition 65:

L WARNING: Can expose you to crystalline silica*, a carcinogen, and hexavalent chromium, a reproductive toxicant. See www.P65Warnings.ca.gov.

SECTION 16: Other information**Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Road Transport
AU: Australia
CA: Canada
CAS: Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
CN: China
CPR: Controlled Products Regulations
DFG: Deutsche Forschungsgemeinschaft
DOT: Department of Transportation
DSL: Domestic Substances List
EEC: European Economic Community
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
EPA: Environmental Protection Agency
EU: European Association
IARC: International Agency for Research on Cancer
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
JP: Japan
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
Know: Octanol/water partition coefficient
KR: Korea



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LEL: Lower Explosive Limit

UEL: Upper Explosive Limit

NIOSH: National Institute for Occupational Safety and Health Administration

PH: Philippines

RCRA: Resource Conservation and Recovery Act

OSHA: Occupational Safety and Health Administration

RID: European Rail Transport

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Transportation of Dangerous Goods

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average

US: United States

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-0-0

HMIS: 3*-0-0

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End of Safety Data Sheet