

# Material Safety Data Sheet

Material Name: CleanCrete

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Clean Concrete Technologies  
530 University Avenue  
Palo Alto, CA 94301

Phone: 888-767-5115  
Fax: 650-644-2969

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

Dusts may cause eye, skin and respiratory tract irritation.

### Potential Health Effects: Eyes

May cause eye irritation.

### Potential Health Effects: Skin

May cause skin irritation.

### Potential Health Effects: Ingestion

Not considered a likely route of exposure. May cause gastrointestinal irritation if swallowed.

### Potential Health Effects: Inhalation

May cause respiratory tract irritation.

### HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

| CAS #         | Component                   |
|---------------|-----------------------------|
| Not Available | Recycled concrete aggregate |
| 7732-18-5     | Water                       |
| 65997-15-1    | Portland cement             |
| Not Available | Aluminosilicate Glass       |
| Not Available | Organic Material            |
| Not Available | Synthetic Fiber             |
| 69012-64-2    | Silica fume (amorphous)     |
| 14808-60-7    | Quartz                      |
| Not Available | Iron Oxides                 |
| 7440-44-0     | Carbon                      |

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Seek medical attention.

### First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

If material is ingested, immediately contact a physician or poison control center.

### First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

None anticipated

### Hazardous Combustion Products

Not Determined

### Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

# Material Safety Data Sheet

**Material Name:** CleanCrete

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

Contain the discharged material.

### Clean-Up Procedures

Transfer spilled material into an appropriate container. Collect spilled material using a vacuum cleaner or wash down with water. Do not use compressed air to maneuver dried material. Avoid generation of airborne dust.

### Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

### Special Procedures

None

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Avoid dust generation.

### Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### A: Component Exposure Limits

#### Portland cement (65997-15-1)

ACGIH: 10 mg/m<sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica

OSHA: 10 mg/m<sup>3</sup> TWA total dust; 5 mg/m<sup>3</sup> TWA respirable fraction

NIOSH: 10 mg/m<sup>3</sup> TWA total dust; 5 mg/m<sup>3</sup> TWA respirable dust

#### Quartz (14808-60-7)

ACGIH: 0.025 mg/m<sup>3</sup> TWA respirable fraction

OSHA: 0.1 mg/m<sup>3</sup> TWA respirable dust

NIOSH: 0.05 mg/m<sup>3</sup> TWA respirable dust

### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

#### Personal Protective Equipment: Skin

Use impervious gloves.

#### Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

#### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

# Material Safety Data Sheet

Material Name: CleanCrete

|  |       |  |      |
|--|-------|--|------|
| <b>Appearance:</b>                     | Gray  | <b>Odor:</b>                           | None |
| <b>Physical State:</b>                 | Solid | <b>pH:</b>                             | NA   |
| <b>Vapor Pressure:</b>                 | ND    | <b>Vapor Density:</b>                  | ND   |
| <b>Boiling Point:</b>                  | ND    | <b>Melting Point:</b>                  | ND   |
| <b>Solubility (H2O):</b>               | ND    | <b>Specific Gravity:</b>               | ND   |
| <b>Evaporation Rate:</b>               | ND    | <b>VOC:</b>                            | ND   |
| <b>Octanol/H2O Coeff.:</b>             | ND    | <b>Flash Point:</b>                    | ND   |
| <b>Flash Point Method:</b>             | ND    | <b>Upper Flammability Limit (UFL):</b> | ND   |
| <b>Lower Flammability Limit (LFL):</b> | ND    | <b>Burning Rate:</b>                   | ND   |
| <b>Auto Ignition:</b>                  | ND    |  |      |

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Avoid dust generation

### Incompatibility

Not Determined

### Hazardous Decomposition

Not Determined

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

##### Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

##### Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

##### Carbon (7440-44-0)

Oral LD50 Rat >10000 mg/kg

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

##### Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

# Material Safety Data Sheet

Material Name: CleanCrete

## B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

### \*\*\* Section 13 - Disposal Considerations \*\*\*

## US EPA Waste Number & Descriptions

### Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

### \*\*\* Section 14 - Transportation Information \*\*\*

## US DOT Information

Shipping Name: Not Regulated

### \*\*\* Section 15 - Regulatory Information \*\*\*

## US Federal Regulations

### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

### State Regulations

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

| Component               | CAS        | CA | MA  | MN  | NJ  | PA  | RI  |
|-------------------------|------------|----|-----|-----|-----|-----|-----|
| Portland cement         | 65997-15-1 | No | Yes | Yes | Yes | Yes | Yes |
| Silica fume (amorphous) | 69012-64-2 | No | Yes | Yes | Yes | No  | No  |
| Quartz                  | 14808-60-7 | No | Yes | Yes | Yes | Yes | Yes |
| Carbon                  | 7440-44-0  | No | No  | No  | No  | No  | Yes |

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

#### Additional Regulatory Information

# Material Safety Data Sheet

Material Name: CleanCrete

## Component Analysis - Inventory

| Component               | CAS #      | TSCA | CAN | EEC    |
|-------------------------|------------|------|-----|--------|
| Water                   | 7732-18-5  | Yes  | DSL | EINECS |
| Portland cement         | 65997-15-1 | Yes  | DSL | EINECS |
| Silica fume (amorphous) | 69012-64-2 | Yes  | DSL | EINECS |
| Quartz                  | 14808-60-7 | Yes  | DSL | EINECS |
| Carbon                  | 7440-44-0  | Yes  | DSL | EINECS |

### \*\*\* Section 16 - Other Information \*\*\*

#### Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

#### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.