

**1. Product and Company Identification**

**Material name** CrafcO Techcrete  
**Version #** 01  
**Revision date** 05-05-2011  
**CAS #** Mixture  
**Company Name** CrafcO, Inc.  
**Address** 420 North Roosevelt Avenue  
 Chandler, AZ 85226 USA  
  
**Division**  
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**2. Hazards Identification**

**Emergency overview** Harmful in contact with eyes.  
**OSHA regulatory status** The product has been classified according to the legislation in force. This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.  
**Skin** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.  
**Inhalation** May cause irritation of respiratory tract. Prolonged inhalation may be harmful.  
**Ingestion** Components of the product may be absorbed into the body by ingestion. Do not ingest.  
**Target organs** Eyes. Skin. Lung  
**Chronic effects** Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**Signs and symptoms** Corneal damage. Conjunctivitis. Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Defatting of the skin. Skin irritation.

**3. Composition / Information on Ingredients**

| Hazardous components                                   | CAS #          | Percent |
|--|----------------|---------|
| PORTLAND CEMENT  | 65997-15-1     | 0 - 5   |
| QUARTZ   | 14808-60-7     | 5 - 20  |
| CALCIUM CARBONATE                                      | 471-34-1       | 5 - 20  |
| FELDSPAR   | 68476-25-5     | 0 - 75  |
| Non-hazardous components                               | CAS #          | Percent |
| ETHYLENE/VINYL ACETATE COPOLYMER                       | Not Applicable | 0 - 5   |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC | 64742-52-5     | 0 - 10  |
| STYRENE/BUTADIENE COPOLYMER                            | 9003-55-8      | 0 - 10  |
| PETROLEUM HYDROCARBON RESIN                            | 64742-16-1     | 5 - 20  |

## 4. First Aid Measures

### First aid procedures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | 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. |
| <b>Skin contact</b> | Get medical attention if irritation develops and persists.  |
| <b>Inhalation</b>   | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.                   |
| <b>Ingestion</b>    | Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.  |

### Notes to physician

Symptoms may be delayed.

### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before re-use.

## 5. Fire Fighting Measures

### Flammable properties

Substance will react with water releasing flammable, toxic or corrosive gases and runoff. The product is not flammable. Does not burn, but may melt in a fire, releasing hazardous fibers.

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Water spray, foam, dry powder or carbon dioxide. |
| <b>Unsuitable extinguishing media</b> | Straight Streams of Water                        |

### Protection of firefighters

|   |  |
|---|--|
| <b>Specific hazards arising from the chemical</b> | Irritating and toxic gases or fumes may be released during a fire. |
|---|--|

## 6. Accidental Release Measures

### Personal precautions

Keep upwind. Keep people away from and upwind of spill/leak.

### Environmental precautions

Runoff or release to sewer, waterway or ground is forbidden.

### Methods for containment

Prevent entry into waterways, sewer, basements or confined areas.

### Methods for cleaning up

Never return spills in original containers for re-use.

## 7. Handling and Storage

### Handling

Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Never allow product to get in contact with water during storage. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

| Components                   | Type | Value                    | Form                 |
|------------------------------|------|--------------------------|----------------------|
| PORTLAND CEMENT (65997-15-1) | TWA  | 1.0000 mg/m <sup>3</sup> | Respirable fraction. |
| QUARTZ (14808-60-7)          | TWA  | 0.0250 mg/m <sup>3</sup> | Respirable fraction. |

#### U.S. - OSHA

| Components  | Type | Value                       | Form                 |
|---|------|-----------------------------|----------------------|
| CALCIUM CARBONATE (471-34-1)  | PEL  | 5.0000 mg/m <sup>3</sup>    | Respirable fraction. |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (64742-52-5) | PEL  | 15.0000 mg/m <sup>3</sup>   | Total dust.          |
|   |      | 2000.0000 mg/m <sup>3</sup> |                      |
|   |      | 500.0000 ppm                |                      |
|   | TWA  | 1600.0000 mg/m <sup>3</sup> |                      |

| Components                   | Type       | Value                        | Form                                      |
|------------------------------|------------|------------------------------|---|
| PORTLAND CEMENT (65997-15-1) | PEL        | 400.0000 ppm                 | Total dust.<br>Respirable fraction.       |
|                              |            | 15.0000 mg/m3                |   |
|                              |            | 5.0000 mg/m3                 |   |
| QUARTZ (14808-60-7)          | TWA<br>TWA | 50.0000 mppcf                | Total dust.<br>Respirable.<br>Respirable. |
|                              |            | 0.3000 mg/m3                 |   |
|                              |            | 2.4000 mppcf<br>0.1000 mg/m3 |   |

**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.

**Personal protective equipment**

**Eye / face protection** Do not get in eyes. Chemical goggles are recommended.

**Skin protection** Wear appropriate chemical resistant clothing. Chemical resistant gloves.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations** Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

**Appearance** Solid.

**Color** Grey.

**Odor** Not significant.

**Odor threshold** Not available.

**Physical state** Solid.

**Form** Solid.

**pH** Not available.

**Melting point** Not available.

**Freezing point** Not available.

**Boiling point** Not available.

**Flash point** > 445 °F (> 229.4 °C)

**Evaporation rate** Not available.

**Flammability limits in air, upper, % by volume** Not available.

**Flammability limits in air, lower, % by volume** Not available.

**Vapor pressure** < 1 mm Hg

**Vapor density** Not available.

**Specific gravity** 1.7 - 2

**Relative density** Not available.

**Solubility (water)** Insoluble

**Partition coefficient (n-octanol/water)** Not available

**Auto-ignition temperature** Not determined

**Decomposition temperature** Not available.

**VOC** 0 % estimated

**Percent volatile** 0 % estimated

**10. Chemical Stability & Reactivity Information**

**Chemical stability** Stable under normal temperature conditions.

**Conditions to avoid** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors

**Incompatible materials** Oxidizing materials.  
**Hazardous decomposition products** Irritants. Toxic gas.

## 11. Toxicological Information

### Toxicological data

| Product                      | Test Results   |
|------------------------------|--|
| Crafco Techcrete (Mixture)   | Acute Oral LD50 Mouse: 61454 mg/kg estimated                         |
| Components                   | Test Results   |
| CALCIUM CARBONATE (471-34-1) | Acute Oral LD50 Mouse: 6450 mg/kg<br>Acute Oral LD50 Rat: 6450 mg/kg |

\* Estimates for product may be based on additional component data not shown.

**Local effects** Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.

**Chronic effects** Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Crystalline silica, as respirable dust particles, has caused pulmonary fibrosis in laboratory animals and humans.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

#### ACGIH Carcinogens

|   |  |
|---|--|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | A2 Suspected human carcinogen.   |
| PORTLAND CEMENT (CAS 65997-15-1)  | A4 Not classifiable as a human carcinogen.                                   |
| QUARTZ (CAS 14808-60-7)   | A4 Not classifiable as a human carcinogen.<br>A2 Suspected human carcinogen. |

#### IARC Monographs. Overall Evaluation of Carcinogenicity

|   |   |
|---|---|
| QUARTZ (CAS 14808-60-7)                     | 1 Carcinogenic to humans.                           |
| STYRENE/BUTADIENE COPOLYMER (CAS 9003-55-8) | 3 Not classifiable as to carcinogenicity to humans. |

#### US NTP Report on Carcinogens: Known carcinogen

|   |                   |
|---|-------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | Known carcinogen. |
| QUARTZ (CAS 14808-60-7)   | Known carcinogen. |

**Epidemiology** Hazardous by OSHA criteria.

## 12. Ecological Information

### Ecotoxicological data

| Components                   | Test Results   |
|------------------------------|--|
| CALCIUM CARBONATE (471-34-1) | LC50 Western mosquitofish ( <i>Gambusia affinis</i> ): > 56000 mg/l<br>96.00 hours |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Waste codes** Not applicable.

**Disposal instructions** Dispose of this material and its container to hazardous or special waste collection point.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.  
CERCLA/SARA Hazardous Substances - Not applicable.

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - Yes

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Inventory status**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                            |
| Canada                      | Domestic Substances List (DSL)   | No                            |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                            |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                            |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                            |
| Korea                       | Existing Chemicals List (ECL)  | No                            |
| New Zealand                 | New Zealand Inventory  | No                            |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                            |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | No                            |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

QUARTZ (CAS 14808-60-7) Listed.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

QUARTZ (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

CALCIUM CARBONATE (CAS 471-34-1) Listed.

PORTLAND CEMENT (CAS 65997-15-1) Listed.

QUARTZ (CAS 14808-60-7) Listed.

**16. Other Information****Further information**

HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 1\*  
 Flammability: 1  
 Physical hazard: 2

**NFPA ratings**

Health: 1  
 Flammability: 1  
 Instability: 1  
 Special hazards: W

**Issue date**

05-05-2011