

1. Product and Company Identification

Material name CrafcO Techcrete
Version # 01
Revision date 05-05-2011
CAS # Mixture
Company Name CrafcO, Inc.
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 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

Eye contact	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.
Skin contact	Get medical attention if irritation develops and persists.
Inhalation	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.
Ingestion	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

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Straight Streams of Water

Protection of firefighters

Specific hazards arising from the chemical	Irritating and toxic gases or fumes may be released during a fire.
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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 ³	Respirable fraction.
QUARTZ (14808-60-7)	TWA	0.0250 mg/m ³	Respirable fraction.

U.S. - OSHA

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

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

Country(s) or region	Inventory name	On inventory (yes/no)*
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

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