



ULTRACRETE MANUFACTURING AND GLOBAL DISTRIBUTION



ULTRACRETE-TX1000

MATERIAL SAFETY DATA SHEET

Conforms to ANSI Z400.1-2004 Standard (United States, Canada, Mexico).

1. Product and Company Identification

| | |
|------------------------------|---|
| Common name | ULTRACRETE-TX1000 |
| Material uses | Multi-purpose polymer modified cement overlay coating. |
| Supplier/Manufacturer | UltraCrete Manufacturing and Global Distribution. PO Box 93487 Phoenix, AZ. 85070 Telephone: 877-485-8721 Fax: 480-539-4780 Email: info@ultracrete.com |
| In case of emergency | 877-485-8721 |

2. Hazards Identification

| | |
|---------------------------------------|---|
| Physical state | Solid. |
| Color | White or Gray |
| Hazard status | This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico. |
| Emergency overview | DANGER! PROLONGED CONTACT MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY CAUSE ALLERGIC RESPIRATORY REACTION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD – CONTAINS MATERIAL WHICH CAN CAUSE CANCER. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Contains material that can cause target organ damage. Contains material which can cause cancer. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. |
| Potential acute health effects | |
| Eyes | Corrosive to eyes. Causes burns. |
| Skin | Corrosive to the skin. Prolonged contact may cause burns. |
| Inhalation | Corrosive to the respiratory system. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Ingestion | May cause burns to mouth, throat and stomach. |

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Potential chronic health effects

CARCINOGENIC EFFECTS: Classified 1 (Known to be human carcinogens.) by NTP, + (Proven.) by NIOSH [Silica crystalline, quartz]. Classified A2 (Suspected for humans.) by ACGIH, 2A (Probable for human.) by IARC [Silica crystalline, quartz]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Kaolin].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure

Pre-existing respiratory disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/Information on Ingredients

United States

| Name | CAS number | % |
|----------------------------|------------|----------|
| Silica crystalline, quartz | 14808-60-7 | 50 - 100 |
| Portland cement mixture | 65997-15-1 | 35 - 65 |

Canada

| Name | CAS number | % |
|----------------------------|------------|----------|
| Silica crystalline, quartz | 14808-60-7 | 50 - 100 |
| Portland cement mixture | 65997-15-1 | 35 - 65 |
| Calcium formate | 544-17-2 | 1 - 5 |
| Limestone | 1317-65-3 | 0.1 - 1 |

Mexico

| Name | UN number | IDLH | Classification | | | | CAS number | % |
|----------------------------|----------------|------------|----------------|---|---|------------|------------|---|
| | | | H | F | R | Special | | |
| Silica crystalline, quartz | Not regulated. | 50 mg/m³ | 1 | 0 | 0 | 14808-60-7 | 50 - 100 | |
| Portland cement mixture | Not regulated. | 5000 mg/m³ | 3 | 0 | 0 | 65997-15-1 | 35 - 65 | |

4. First Aid Measures

| | |
|---------------------------|--|
| Eye contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately. |
| Skin contact | In case of contact with skin wash clean with soap and water. Get medical attention if irritation occurs. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. |
| Ingestion | Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| Notes to physician | No specific antidote. |

5. Fire-Fighting Measures

| | |
|---|--|
| Flammability of the product | Non-flammable. |
| Extinguishing media | |
| Suitable | Use an extinguishing agent suitable for the surrounding fire. |
| Not suitable | None known. |
| Special exposure hazards | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. No specific fire or explosion hazard. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. Accidental Release Measures

| | |
|----------------------------------|--|
| Personal precautions | Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). |
| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Methods for cleaning up | Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |

7. Handling and Storage

| | |
|-----------------|---|
| Handling | Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Storage | Store in accordance with local regulations. Store in original container in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

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8. Exposure Controls/Personal Protection

United States

Product name

Silica crystalline, quartz

Exposure limits

ACGIH TLV (United States, 1/2006).

TWA: 0,025 mg/m³ 8 hour(s). Form: Respirable fraction

OSHA PEL Z3 (United States, 9/2005).

TWA: 10 mg/m³ 8 hour(s). Form: Respirable

TWA: 30 mg/m³ 8 hour(s). Form: Total dust.

TWA: 250 MPPCF 8 hour(s). Form: Respirable

ACGIH TLV (United States, 1/2006).

TWA: 10 mg/m³ 8 hour(s).

NIOSH REL (United States, 12/2001).

TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction

TWA: 10 mg/m³ 10 hour(s). Form: Total

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m³ 8 hour(s). Form: Total dust.

Portland cement mixture

Canada

Product name

Silica crystalline, quartz

Exposure limits

ACGIH TLV (United States, 1/2006).

TWA: 0,025 mg/m³ 8 hour(s). Form: Respirable fraction

ACGIH TLV (United States, 1/2006).

TWA: 10 mg/m³ 8 hour(s).

Portland cement mixture

Mexico

Product name

Silica crystalline, quartz

Exposure limits

NOM-010-STPS (Mexico, 9/2000).

LMPE-PPT: 0,1 mg/m³ 8 hour(s).

NOM-010-STPS (Mexico, 9/2000).

LMPE-CT: 20 mg/m³ 15 minute(s).

LMPE-PPT: 10 mg/m³ 8 hour(s).

Portland cement mixture

Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eyes**Skin****Respiratory****Hands**

Safety glasses.

Synthetic apron.

Dust respirator.

Nitrile gloves.



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| | |
|---|---|
| HMIS Code/Personal protective equipment | F |
| Personal protection in case of a large spill | Wear appropriate personal protective equipment. |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice. |

9. Physical and Chemical Properties

| | |
|-----------------------|---------------------|
| Physical state | Solid |
| Color | White or Gray |
| Solubility | Insoluble in water. |

10. Stability and Reactivity

| | |
|--|--|
| Stability and reactivity | The product is stable. |
| Incompatibility with various substances | Reactive or incompatible with the following materials: oxidizing materials. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hazardous polymerization | Will not occur. |
| Conditions of reactivity | None known. |

11. Toxicological Information

| | |
|---|---|
| Acute Effects | |
| Eyes | Corrosive to eyes. Causes burns. |
| Skin | Corrosive to the skin. Prolonged contact may cause burns. |
| Inhalation | Corrosive to the respiratory system. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Ingestion | May cause burns to mouth, throat and stomach. |
| Potential chronic health effects | CARCINOGENIC EFFECTS: Classified 1 (Known to be human carcinogens.) by NTP, + (Proven.) by NIOSH [Silica crystalline, quartz]. Classified A2 (Suspected for humans.) by ACGIH, 2A (Probable for human.) by IARC [Silica crystalline, quartz]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. |
| Target organs | Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea, stomach. Not applicable. |

12. Ecological Information

| | |
|----------------------------------|---|
| Environmental precautions | No known significant effects or critical hazards. |
| Products of degradation | Not applicable. |

13. Disposal Considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14 . Transport Information

NAERG

Regulatory information

Not applicable.

UN/ IMDG/ IATA DOT/ TDG

Not regulated.

15. Regulatory Information

United States

HCS Classification

Corrosive material
Sensitizing material
Carcinogen
Target organ effects

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Silica crystalline, quartz; Portland cement mixture; Calcium formate
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Silica crystalline, quartz: Immediate (acute) health hazard, Delayed (chronic) health hazard; Portland cement mixture: Immediate (acute) health hazard; Calcium formate: Immediate (acute) health hazard.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: The following components are listed: Silica crystalline, quartz; Portland cement mixture.

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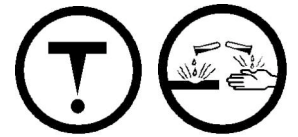
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed:
 Silica crystalline, quartz; Portland cement mixture.
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed:
 Silica crystalline, quartz; Portland cement mixture.
Rhode Island Hazardous Substances: None of the components are listed.

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

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|----------------------------|--------|--------------|---------------------------|---------------------------------|
| Silica crystalline, quartz | Yes. | No. | No. | No. |

Canada
WHMIS (Canada)

Class D-2A: Material causing other toxic effects (Very toxic).
 Class E: Corrosive material.



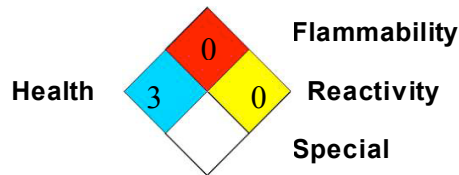
Canada inventory

Canada inventory: At least one component is not listed in DSL but all such components are listed in NDSL.

CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA, the American National Standard Institute (ANSI) Z400.1 and NOM -018-STPS-2000.

Mexico
Classification



HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

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International lists

This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16. Other Information

Label requirements (U.S.A.)

PROLONGED CONTACT MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY CAUSE ALLERGIC RESPIRATORY REACTION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD – CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Hazardous Material Information System (U.S.A.)

HMIS RATING

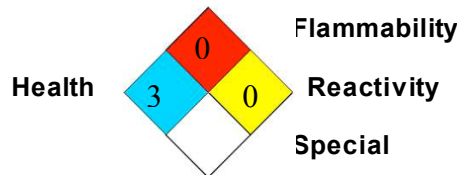
| | |
|---------------------|---|
| Health | 3 |
| Fire Hazard | 0 |
| Physical Hazard | 0 |
| Personal Protection | F |

HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.)



References

ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

**Date of issue
Version**

04/08/2008
1

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