

## Section I-Product Identification

Technik Decorative Products  
#5-6420 Beresford Street  
Burnaby BC V5E 1B6  
Emergency Phone # 1-866-779-5278

### Product Name

Multicoat	Counter Mix
Stamp Top	Kast Krete
Trowel Down	Color Hardeners
Microtop Flow	Spray Top

**HEALTH 3**

**FLAMMABILITY 0**

**PHYSICAL HAZARD 0**

**Wear Safety, Glasses,  
Gloves and Dust Respirator**

**Product Use:** Decorative Concrete finishes

Date prepared on: Sept 1, 2016 Prepared by: Peter Jessen

## Section II- Composition/Information on Ingredients

Hazardous Ingredients	CAS Number	Threshold Limit Values (mg/m3)	Permissible Exposure Limit (mg/m3)
Portland Cement 30-60%	65997-15-1	10 mg/m3	15 mg/m3
Silica Sand, crystalline 30-60%	14808-60-7	.025mg/m3	10 mg/m3
<b>May contain one or more of the following:</b>			
Calcium Aluminates Cement 10-30%	65997-16-2	15 mg/m3	15 mg/m3
Calcium Sulfate Dihydrate 10-30 %	13397-24-5	10 mg/m3 (inhalable)	15 mg/m3 (Total Dust); 5mg/m3 (respirable)
Polymer Modifiers 1-5 %	24937-78-8	10 mg/m3 (inhalable) 3mg/m3 (respirable)	15 mg/m3 (Total Dust); 5mg/m3 (respirable)
Calcium Carbonate 5-10%	471-34-1	10 mg/m3	10 mg/m3
Limestone Dust .5-1.5%	01317-65-3	5mg/m3	5 mg/m3
Amorphous Silica (from Fly Ash) 1-5%	07631-86-9	5 mg/m3	5 mg/m3

### *Section III- Hazard Identification*

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**Primary Routes of Entry:** Inhalation, Skin Contact, Eye contact, Ingestion.

#### **Effects of Acute Exposure**

**Eye Hazards:** Irritant, severe eye irritation, irreversible corneal damage.

**Skin Hazards:** Contains Portland cement and exposure to dry cement powder may cause drying of the skin and or mild irritation. Prolonged contact with wet Portland cement may cause severe, potentially irreversible damage to the skin in the form of chemical burns.

**Ingestion Hazard:** Ingestion is not known to be harmful, however the product contains Portland cement which is caustic to mucus tissue and should not be consumed.

**Inhalation Hazard:** Causes respiratory tract irritation. May cause nose, lung and throat irritation. May cause delayed lung injury.

**Chronic/Carcinogenicity Effects:** Contains silica sand, known human carcinogen. (Category #1)



### *Section IV- First Aid Measures*

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**Eyes:** Immediately flush eye thoroughly with water. Continue to flush for at least 15 minutes, including under eye lids to remove all particles. Call a physician immediately. Continuously flush on route to hospital for immediate medical attention.

**Skin:** Wash skin with cool water and a pH neutral soap. Seek medical attention if irritation or inflammation persists.

**Inhalation:** Remove person to fresh air. If breathing is difficult administer oxygen. Seek medical attention if coughing and other symptoms do not subside. Inhalation of large amounts of Portland cement requires immediate medical attention.

**Ingestion:** Do not induce vomiting. If conscious, have the victim drink plenty of water or milk. Get medical attention immediately.

### *Section V- Fire and Explosion Hazard Data*

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**Flammability:** Noncombustible and not explosive.

**General Hazard:** Avoid breathing dust, wet cement is caustic.

**Auto-ignition Temperature:** Not applicable

**Flash Points:** Non-combustible

**Fire Fighting Equipment:** Cement poses no fire related hazard. A SCBA is recommended to limit exposures to combustion products when fighting any fire.

### *Section VI- Accidental Release Measures*

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If spilled, use dustless methods (vacuum) and place into covered container for disposal (if not contaminated or wet). Use adequate ventilation to keep exposure to airborne contaminants below the exposure limit. Do not use compressed air to cleanup dust. When cleaning up spill, wear appropriate personal protection as specific in Section VIII.

### *Section VII- Handling and Storage*

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Store in a dry environment until used. Do not breathe dust. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles are recommended. When handling and storing this product, wear appropriate personal protection as outlined in Section VIII.

**Personal Hygiene:** Promptly remove dusty clothing or clothing which is wet. Wash thoroughly after exposure to dust or wet cement mixtures or fluids.

### *Section VIII- Exposure Control/Personal Protection*

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**Engineering Controls:** Local exhaust can be used, if necessary, to control airborne dust levels.

**Personal Protection:** **Eyes-** Wear safety glasses with side protection

**Skin-**The use of nitrile-latex gloves is recommended.

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

**General-** Launder contaminated clothing before re-use.

Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning—little heat is sensed.

Warn employees and/or customers of the hazards and required OSHA precautions associated with the use of this product.

**Component Exposure Limits:**

***Silica Sand (14808-60-7)***

ACGIH	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
NIOSH	0.05 mg/m <sup>3</sup> TWA (respirable dust)
Alberta	0.1 mg/m <sup>3</sup> TWA (respirable particulate)
British Columbia	ACGIH Category A2 –Suspected Human Carcinogen; IARC Category 1- Human carcinogen---0.025 mg/m <sup>3</sup> TWA (respirable)

***Portland Cement (65997-15-1)***

ACGIH	10 mg/m <sup>3</sup> TWA (particulate dust containing no asbestos and <1% crystalline silica)
OSHA (final)	15 mg/m <sup>3</sup> TWA (total dust); 5mg/m <sup>3</sup> TWA (respirable fraction)
NIOSH	10mg/m <sup>3</sup> TWA (total dust); 5mg/m <sup>3</sup> TWA (respirable dust)
Alberta	10mg/m <sup>3</sup> TWA
British Columbia	10 mg/m <sup>3</sup> TWA (total particulate matter containing no asbestos and <1% crystalline silica); 3mg/m <sup>3</sup> TWA (respirable particulate matter containing no asbestos and <1% crystalline silica)

***Silica Fume (amorphous) (69012-64-2)***

Alberta	2 mg/m <sup>3</sup> TWA (respirable particulate)
British Columbia	4 mg/m <sup>3</sup> TWA (total dust); 1.5 mg/m <sup>3</sup> TWA (respirable dust)

***Section IX- Physical and Chemical Properties***

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**Appearance:** Free flowing white or grey powder

**Chemical Type:** Mixture

**Physical State:** Solid

**Specific Gravity:** 2.6-3.15

**Boiling Point:** >2700°F

**Vapor Density/Pressure:** Not Appl.

**Evaporation Rate:** Not Appl.

**Solubility:** Slight

**Odor:** Cement

**Odor Threshold:** Not available

**PH:** 11.0-13.0

**Coefficient in water/Oil distribution:** Not Appl.

**Freezing Point:** None, solid

## *Section X- Stability and Reactivity*

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**Stability:** Stable

**Conditions to Avoid:** Avoid unintentional contact with water. Keep product dry until used to preserve utility.

**Incompatible Materials:** Contains Portland cement which, when wet, is highly alkali. As a result, it is incompatible with acids, ammonium salts, aluminum and other alkali and alkaline earth metals. Contact of silica with oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires. Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas—silicon tetrafluoride.

**Hazardous Decomposition or By-Products:** None

## *Section XI- Toxicological Information*

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**Routes of Entry:** Inhalation, Ingestion, Skin Exposure

**Chronic Effects on Humans/ Carcinogenicity:** Conditions aggravated by exposure include eye disease, skin disorders and Chronic Respiratory conditions. Contains Silica Sand, a known carcinogen—listed on the National Toxicology Program. Repeated (long term) inhalation of dust may result in silicosis.  
NTP-Yes IARC- Group 1 Carcinogen

**Signs and Symptoms of Overexposure:** Dry skin, dry cough, irritated eyes or any other potential adverse condition related to the alkaline nature of wet cement.

**Medical Conditions that can be aggravated by exposure:** Allergies, skin and respiratory disorders.  
Product Sensitivity.

## *Section XII- Ecological Information*

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No data available.

## *Section XIII- Disposal Considerations*

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Dispose in accordance with applicable federal, provincial, and local government regulations.

This product is NOT considered hazardous waste.

**Steps to be taken if material is leaked or spilled:** Wear protective equipment. Contain by diking with inert absorbent materials and put into an approved waste container.

**Precautions to be taken during handling and Storage:** Store in a manner to avoid dusty conditions.

**Other precautions:** Avoid prolonged skin contact.

### *Section XIV- Transport Information*

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This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations. Applies to all products identified in section I.

### *Section XV- Regulatory Information*

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**Canadian Environmental Protection Act:** Not listed.

**Canadian WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E- Corrosive Material) and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

### *Section XVI- Other Information*

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- HMIS-III:**
- Health- 0=No significant health risk
    - 1= Irritation or minor reversible injury possible
    - 2= Temporary or minor injury possible
    - 3= Major injury possible unless prompt action is taken
    - 4= Life threatening, major or permanent damage possible
  
  - Flammability- 0= Material will not burn
    - 1= Material must be preheated before ignition will occur
    - 2= Material must be exposed to high temperatures before ignition
    - 3= Material capable of ignition under normal temperatures
    - 4= Flammable gases or very volatile liquids; may ignite spontaneously
  
  - Physical Hazard- 0= Material is normally stable, even under fire conditions
    - 1=Material normally stable but may become unstable at high temps
    - 2= Materials that are unstable and may undergo reaction at room temp
    - 3= Materials that may form explosive mixtures with water
    - 4= Materials that readily capable of explosive water reaction

**Abbreviations:**

<b>ACGIH</b>	American Conference of Government Industrial Hygienists
<b>CPR</b>	Controlled Products Regulations
<b>HPA</b>	Hazardous Products Act
<b>IARC</b>	International Agency for Research
<b>MSHA</b>	Mine Safety and Health Administration (U.S.A.)
<b>NIOSH</b>	National Institute for Occupational Safety and Health (U.S.A)
<b>NTP</b>	National Toxicity Program (U.S.A.)
<b>OSHA</b>	Occupational Safety and Health Administration (U.S.A.)
<b>WHMIS</b>	Workplace Hazardous Material Information System

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