
MATERIAL SAFETY DATA SHEET

SECTION 01 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Chemical Name: FURNACE CEMENT
Manufacturer: Kel Kem Ltd.
#3 – 1333 Cornwall Road
Oakville, Ontario L6J 7T5
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Date: April 1, 2011
Prepared by: Gerry van Konynenburg
WHMIS Classification: D2A, D2B
Product Use: Noncombustible Cement Compound
Product Code(s): KK0304

SECTION 02 – COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Ingredients</u>	<u>CAS No.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Amorphous Silica	7631-86-9	0 – 0.05	20 mppcf	10 mg/m ³
Silica, Quartz	14808-60-7	1.0 – 5.0	0.1 mg/m ³	0.05 mg/m ³
Mica	12001-26-2	15.0 – 40.0	20 mppcf	3 mg/m ³
Sodium Silicate	1344-09-8	40.0 – 70.0	n/a	5 mg/m ³
Sodium Hydroxide	1310-73-2	1.0 – 5.0	2 mg/m ³	2 mg/m ³

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555 or 29 CFR 1910.1200

SECTION 03 – HAZARDS IDENTIFICATION:

ROUTES OF ENTRY INTO THE BODY (ACUTE EFFECTS):

Eyes: Direct contact may cause severe irritation. Symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Skin: May cause severe irritation including itching and inflammation. Symptoms may include localized redness, swelling, itching, dryness, cracking, blistering and pain.

Inhalation: Upper respiratory tract irritation. Symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion: Gastrointestinal irritation. Symptoms may include abdominal pain, nausea, diarrhea and vomiting.

WHMIS HAZARD SYMBOL(S):



SECTION 04 - FIRST AID MEASURES:

Eyes: Flush with copious quantities of lukewarm water. Do not attempt to physically remove the solids from the eye. Seek medical attention immediately.

Skin: Remove contaminated clothing. Wash thoroughly with warm water and non-abrasive soap. Seek medical attention if you feel ill or a reaction develops.

Inhalation: Remove to fresh air and provide water. Seek medical attention if you feel ill or a reaction develops.

Ingestion: Do not induce vomiting. Provide water and get immediate medical attention.

SECTION 05 - FIRE FIGHTING MEASURES:

Flammable Conditions: Not applicable

Extinguishing Media:	Not applicable
Fire Fighting Measures:	Not applicable
Flash Point:	Not applicable
Flammability Limits:	Lower Explosion Limit - not applicable Upper Explosion Limit - not applicable
Autoignition Temperature:	Not applicable
Hazardous Decomposition Products:	Not applicable
Sensitivity - Impact:	None
Static:	None

SECTION 06 – ACCIDENTAL RELEASE MEASURES:

Containment / Clean Up:	Restrict access to the area of the spill. Provide ventilation and protective clothing. Scrape up compound and place in container for disposal. Local, state, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.
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SECTION 07 – HANDLING AND STORAGE:

Handling and Storage:	Store in an adequately ventilated area under dry conditions between 50°F (10°C) to 77°F (25°C) and keep container tightly sealed when not in use.
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SECTION 08 – EXPOSURE CONTROL / PERSONAL PROTECTION:

Component Exposure Limits:	See Section 2.
Respiratory:	Respiratory protection to be provided.
Ventilation:	In indoor applications, passive ventilation (opening of doors and windows) is recommended. Local exhaust as necessary to keep exposure levels within guidelines.
Personal Protective Equipment:	Safety glasses with side-protection, impermeable gloves (e.g., neoprene, nitrile, silver shield (R)), coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Thick Paste
Odor and Appearance:	Low odor, gunnable, gritty paste. Black or buff color.
Odor Threshold:	Not available
Specific Gravity:	1.91
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Boiling Point:	100°C (212°F) due to water component
Freezing Point:	Not available
pH:	Not available
Coeff. Oil/Water Distribution:	Not available

SECTION 10 – STABILITY AND REACTIVITY:

Chemical Stability:	Stable
Incompatible Materials:	Not available
Reactive Conditions:	Not available
Hazardous Polymerization:	Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION:

Effects of overexposure:	Acute hazards are to eyes and skin if contacted. Prolonged or repeated overexposure may cause effects to the lungs such as difficulty in breathing, cough, wheezing, weakness, increased heart rate, bluish coloured skin, sputum production and changes in lung function. The mica and silica in this product are totally encapsulated and thus present no inhalation danger to the user.
Sensitization:	No known applicable information.
Carcinogenicity:	Respirable quartz silica from occupational sources is listed by IARC as a human carcinogen.
Reproductive Toxicity:	Not known
Teratogenicity:	Not known

Mutagenicity: Not known
Synergistic Products: Not known

SECTION 12 – ECOLOGICAL INFORMATION:

Air: Complete information is not yet available.
Water: Complete information is not yet available.
Soil: Complete information is not yet available.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Waste Disposal: Dispose in accordance with Federal, State/Provincial and local regulations.

SECTION 14 - TRANSPORT INFORMATION:

Shipping Information: Not subject to DOT, TDG, IMDG Code or IATA Regulations.

SECTION 15 - REGULATORY INFORMATION:

TSCA Inventory Status: Chemical components listed on TSCA inventory except as exempted.
NFPA Profile: Health 2, Flammability 0, Reactivity 0
SARA TITLE III Chemical Listings: **Section 302 Extremely Hazardous Substances:** None
Section 304 CERCLA Hazardous Substances: This product contains the following toxic chemicals which are subject to reporting: 1% by weight Caustic Soda (CAS# 01310-73-3).
Section 312 Hazard Class: Acute: Yes; Chronic: No; Fire: No; Pressure: No; Reactive: No
Section 313 Toxic Chemicals: This product contains the following toxic chemicals which are subject to reporting: 1% by weight Caustic Soda (CAS# 01310-73-3).
State Substance List: This product contains a listed substance(s) that appears on one or more of the Substance Lists for Pennsylvania, Massachusetts and New Jersey: sodium hydroxide (CAS# 01310-73-2); sodium silicate (CAS# 01344-09-8); mica (CAS# 12001-26-2); silica, quartz (CAS# 14808-60-7); and silica, amorphous (CAS# 07631-86-9).
California Proposition 65 List: None known
Volatile Organic Content: None
WHMIS Classification: D2A, D2B
Domestic Substance List: Chemical components listed on DSL except as exempted.

SECTION 16 - OTHER INFORMATION:

The information is provided in good faith and is correct to the best of Kel Kem Ltd.'s knowledge as of the date hereof and is designed to assist our customers; however Kel Kem Ltd. makes no representation as to its completeness or accuracy. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Kel Kem Ltd. disclaims all expressed or implied warranties or representations.