# MATERIAL SAFETY DATA SHEET

## Section 1: Product and Company Information

**Manufacturer:** **Kel Kem Ltd.**
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**Date:** **April 1, 2011**
**Prepared by:** **Gerry van Konynenburg**
**WHMIS Classification:** **A, D2B, E**

**Product Name: Glass & Masonry Cleaner**

**Product Code(s):** KK0050 (Kel Kem brand)

Obsolete:
KK0049 (Home Hdwe brand)

**Product Use:** Cleaner

## Section 2: Composition/Information on Ingredients

| Ingredient | CAS Number | Percent (Wt. %) | LD50(Oral-rat) | LC50(Inhalation -rat) | T.L.V. |
|---|---|---|---|---|---|
| Sodium Hydroxide | 1310-73-2 | 1 – 5 | Not available | Not available | 2mg/$M^3$ |
| Potassium Hydroxide | 1310-58-3 | 1 – 5 | 365 mg/kg | Not available | 2mg/$M^3$ |
| Isopropanol | 67-63-0 | 1 – 5 | >4720 mg/kg | 12000ppm8hr | 400ppm |
| Diethylene Glycol Ethyl Ether | 111-90-0 | 0.5 – 1.5 | 6500 mg/kg | Not available | Not available |
| Isobutane | 75-28-5 | 1 – 5 | Not applicable | 142,500ppm4hr | 1000ppm |

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

## Section 3: Hazards Identification

**Corrosive. Skin/eye irritant.**
**Effects of acute exosure:** Dizziness, Nausea, Irritation to the skin and eyes.
**Effects of chronic exosure:** Solvents may cause defatting dermatitis
**ROUTES OF ENTRY INTO THE BODY (ACUTE EFFECTS):**
**Skin contact:** Corrosive – Sodium Hydroxide can cause deep and severe burns, ulceration and scarring
**Eye contact:** Corrosive – Sodium Hydroxide is extremely corrosive; causes corneal scarring and clouding
**Ingestion:** May cause headache, nausea, vomiting and weakness
**Inhalation:** Corrosive to the respiratory tract. Inhalation of solvents may cause irritation. Propellant is a simple asphyxiant.

**WHMIS HAZARD SYMBOL(S):**

## Section 4: First Aid Measures

**Eye:** Hold eyelids open and wash thoroughly with large quantities of clean water. Get medical attention immediately.
**Skin:** Remove contaminated clothing and flush with large quantities of water for at least 15 minutes. Alkaline burns need immediate medical attention.
**Inhalation:** Remove to fresh air, keep victim warm and rested. Persistent discomfort requires medical attention.
**Ingestion:** Give a glass of milk. Contact a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

## Section 5: Fire Fighting Measures

**General Information:** Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Wear a self-contained breathing apparatus, (MSHA/NIOSH approved or equivalent), and full protective gear in a fire involving this material.
**Extinguishing Media:** Water, carbon dioxide, dry chemical, foam.
**Flammability:** Not a flammable product (as per Canadian Aerosol Regulations)
**If Yes, under which conditions?** Excessive heat, sparks and open flame

| | |
|---|---|
| **Flash Point:** | 13 deg C. TCC |
| **Flammability Limits:** | Lower Explosion Limit (% by volume) – 1.8<br>Upper Explosion Limit (% by volume) – 8.4 |
| **Autoignition Temperature (C) :** | > 245 |
| **Hazardous Combustion Products:** | Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete. |
| **Sensitivity to Mechanical Impact:** | Not applicable |
| **Sensitivity to Static Discharge:** | Not applicable |
| **Aerosol Flame Projection:** | Classified as 0 cm. |
| **Flashback:** | None |

## Section 6: Accidental Release Measures

Remove all sources of ignition. Use an inert absorbent material and non-sparking tools. Prevent from entering a watercourse.

## Section 7: Handling and Storage

Handling: Avoid breathing vapours. Avoid contact with skin and eyes.
Storage: Store in cool, dry area. Keep away from open flames, heat, sparks and other sources of ignition.

## Section 8: Exposure Controls/Personal Protection

**Engineering controls:** Local mechanical exhaust if used indoors on a continuous basis.
**Gloves:** Chemical resistant
**Eyes:** Safety goggles or glasses
**Respiratory:** Wear a NIOSH/MSHATC 23C or equivalent respirator equipped with organic vapour cartridges if used indoors on a continuous basis.

## Section 9: Physical and Chemical Properties

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| **Physical State** | liquid | **Odour & Appearance** | Fragrant odor, yellow color |
| **Odour Threshold (ppm)** | Not available | **Specific Gravity (liquid)** | 1.04 – 1.08 |
| **Vapour Pressure (PSIG)** | 35 – 45 aerosol | **Vapour Density (Air=1)** | > 1 |
| **Evaporation Rate** | < 1 | **Boiling Point (C)** | 83 - 100 |
| **Freezing Point (C)** | < 0 | **Solubility in Water (20C)** | Miscible |
| **% Volatile (by weight)** | 90 - 92 | **pH** | 12 - 14 |
| **Coefficient of water/oil distribution** | Not available | | |

## Section 10: Stability and Reactivity

| | | |
|---|---|---|
| **Chemical Stability (Yes or No)** | Yes | Under normal conditions |
| **If No, under which conditions?** | | |
| **Reactivity (Yes or No)** | No | |
| **Under what conditions?** | | |
| **Incompatibility to other substances** | Yes | Strong oxidizing agents, |
| **If so, which ones?** | | Strong acids |
| **Hazardous decomposition products** | | Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete |

## Section 11: Toxicological Information

**See Section 2 for exposure limits.**

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| **Effects of overexposure:** | See Section 3 |
| **Sensitization:** | Unknown. |
| **Carcinogenicity:** | No ingredients considered by IARC, NTP or OSHA to be carcinogens |

| | |
|---|---|
| **Reproductive Toxicity:** | No information is available and no adverse effects are anticipated. |
| **Teratogenicity:** | No information is available and no adverse effects are anticipated. |
| **Mutagenicity:** | No information is available and no adverse effects are anticipated. |
| **Synergistic Products:** | None known. |

## Section 12: Ecological Information

No information is available

## Section 13: Disposal Considerations

Do not puncture or incinerate containers, even when empty. Dispose of in accordance with local, provincial/state, and federal regulations.

## Section 14: Transport Information

TDG: Limited Quantity (Aerosol, UN1950, Class 2.1, Packing Group: Not applicable)

## Section 15: Regulatory Information

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**

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|---|---|
| **WHMIS Classification:** | **A, D2B, E** |
| **HMIS Rating Health:** | **3 Serious Hazard** |
| **HMIS Rating Flammability:** | **1 Slight Hazard** |
| **HMIS Rating Reactivity:** | **1 Slight Hazard** |
| **NFPA CODE 30B:** | **Level 1** |
| **CNFC Section 3.3.5:** | **Level 1** |

## Section 16: Other Information

**Notice to the Reader: 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.**

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