

SAFETY DATA SHEET

FABRIKEM® Fireplace Cleaner

SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

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| Product Identifier | Fabrikem® Fireplace Cleaner |
| Recommended Use | Soot removal from masonry chimney faces |
| Manufacturer's Name | Fabrikem Manufacturing Ltd. 20361 Duncan Way, Langley, BC V3A 7N3 |
| Supplier's Name | Fabrikem Manufacturing Ltd. 20361 Duncan Way, Langley, BC V3A 7N3 |
| Phone Number | 604-532-3883 (Monday to Friday; 0800-1600 Pacific Time) |
| Preparation Date of SDS | 21 November 2017 |
| Revision Date of SDS | 21 February 2020 |
| SDS Prepared By | WHMIS Team |
| CANUTEC Emergency Number | 613-996-6666 (Transport Emergencies) |

SECTION 02 HAZARD IDENTIFICATION

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| Hazard Classification | CORROSIVE TO METALS ACUTE TOXICITY - ORAL ACUTE TOXICITY - DERMAL ACUTE TOXICITY - INHALATION SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) ASPIRATION TOXICITY | Category 1 Category 4 Category 4 Category 4 Category 2 Category 1 Category 3 Category 1 |
| Label Elements | | |
| Symbols | | |
| Signal Words | Danger | |
| Hazard Statements | H227 Combustible liquid. H290 May be corrosive to metals. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. | |
| Precautionary Statements | P234 Keep only in original container. P260 Do not breathe mist, vapours or spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 + P330 + P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin. | |

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| | <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.</p> |
| Other Hazards | |

SECTION 03 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS# | % | Synonyms |
|---------------------------------|-----------|-------|-----------------|
| Disodium Metasilicate | 6834-92-0 | 3 - 7 | Metso |
| Tetrapotassium Pyrophosphate | 7320-34-5 | 3 - 7 | TKPP |
| Ethylene Glycol Monobutyl Ether | 111-76-2 | 3 - 7 | Glycol Ether EB |

SECTION 04 FIRST AID MEASURES

| Route of Exposure | |
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| Inhalation | Remove victim to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Seek medical attention. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. |
| Self-protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8). |
| Most Important Symptoms & Effects | <p>Symptoms/effects: Causes burns to skin, mouth, throat, stomach, and eyes.</p> <p>Symptoms/effects after inhalation: Possible inflammation of the respiratory tract.</p> <p>Symptoms/effects after skin contact: Caustic burns/corrosion of the skin.</p> <p>Symptoms/effects after eye contact: Causes serious eye damage.</p> <p>Symptoms/effects after ingestion: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhea.</p> |

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| Immediate Medical Attention & Special Treatment | Obtain medical assistance. Treatment based on sound judgment of physician and individual reactions of patient. |
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SECTION 05 FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media | Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Specific Hazards Arising from the Substance or Mixture | Isolate and restrict area access. Stop leak only if safe to do so. Move containers from fire area if you can do it without risk. Fight fire from a safe distance and from a protected location. Use flooding quantities of water for fire and water spray or fog for vapors. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which could result in container rupture. This material may produce a floating fire hazard in extreme fire conditions. This product can produce flammable vapors which may travel to a source of ignition and flash back. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous Combustion Products | Carbon monoxide. Hydrogen. Aldehydes. Ketones. Organic acids. |
| Special Fire Fighting Procedures | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

SECTION 06 ACCIDENTAL RELEASE MEASURES

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| Personal Precautions, Protective Equipment, and Emergency Procedures | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. |
| Methods and Materials for Containment and Cleaning Up | Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |

SECTION 07 HANDLING AND STORAGE

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| Precautions for Safe Handling | Combustible. For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion. |
| Conditions for Safe Storage | Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Do not store in aluminum, copper, copper alloys and galvanized containers. |

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SECTION 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Control Parameters | | | | |
|---------------------------------|----------------------|------|-----------------------|-----------------------|
| Chemical Name | ACGIH TLV | | OSHA PEL | |
| | TWA | STEL | TWA | STEL |
| Ethylene Glycol Monobutyl Ether | 97 mg/m ³ | N/A | 120 mg/m ³ | 240 mg/m ³ |

| Engineering Controls | General | Use in a well ventilated area. |
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| | Local Exhaust | Local exhaust ventilation as necessary to maintain exposures to within applicable limits. |
| | Other | Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity. |
| Personal Protective Equipment | Gloves | Impervious gloves of chemically resistant material (butyl rubber, nitrile, Viton™ or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. |
| | Respirator | If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. |
| | Eye | Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury. |
| | Footwear | Impervious footwear of chemically resistant material (butyl rubber, nitrile, Viton™ or PVC) should be worn at all times. |
| | Clothing | RECOMMENDED (resistance to breakthrough longer than 8 hours): Butyl rubber, Neoprene rubber, Viton™, Viton™/Butyl rubber, Barrier (PE/PA/PE), Trelchem™ HPS, Trelchem™ VPS, Tychem™ SL (Saranex™), Tychem™ CPF 3, Tychem™ F, Tychem™ BR/LV, Tychem™ Responder™, Tychem™ TK. |
| | Local Exhaust | Supply sufficient replacement air to make up for air removed by exhaust systems. |
| | Other | Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity. |

SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Colourless |
| Odour | Ether |
| Odour Threshold | No information available |
| pH | >10 |
| Melting/Freezing Point | >-40°C |
| Initial Boiling Point/Range | 170°C |
| Flash Point | >65°C |
| Evaporation Rate (n-butyl acetate = 1) | <0.1 |
| Flammability (solid, gas) | No data available |
| Lower Flammable/Explosive Limit | 1.3 |
| Upper Flammable/Explosive Limit | 10.6 |
| Vapour Pressure | 0.4 mm Hg (at 20°C) |
| Vapour Density (air = 1) | N/E |

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| Relative Density | 0.95 |
| Solubility | Completely miscible |
| Partition Coefficient (n-octanol/water) | N/E |
| Auto-Ignition Temperature | 244°C |
| Decomposition Temperature | No data available |

SECTION 10 STABILITY AND REACTIVITY

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| Reactivity | Stable |
| Chemical Stability | Stable, heat and contamination could cause decomposition. |
| Possibility of Hazardous Reactions | Hazardous polymerization does not occur. |
| Conditions to Avoid | Avoid excessive heat, open flames and all ignition sources. Generation of gas during decomposition can cause pressure in closed systems. Avoid contact with metals such as: zinc, lead, magnesium, aluminum and galvanized metals. Do not distill to dryness. Product can oxidize at elevated temperatures. |
| Incompatible Material | Strong bases. Oxidizing agents. Strong acids. |
| Hazardous Decomposition Products | Decomposition products can include and are not limited to: Carbon Monoxide, hydrogen, aldehydes. Ketones, and organic acids. |

SECTION 11 TOXICOLOGICAL INFORMATION

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|---------------------------------|--|-------------------|--------------------------------|
| Routes of Exposure | Inhalation, Skin, Eyes, Ingestion | | |
| Symptoms of Acute Exposure | <p>Skin Corrosion/Irritation Causes skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded (scratched or cut).</p> <p>Ingestion Causes severe burns of the mouth, esophagus, and stomach, with consequent pain, nausea, vomiting, diarrhea, circulatory collapse, and possibly death.</p> <p>Inhalation May cause headache. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.</p> <p>Serious Eye Damage/Irritation Corrosive. Causes eye burns. Symptoms include pain, redness and tearing. Effects may be slow to heal. May cause severe eye irritation. May cause corneal injury.</p> <p>Respiratory or Skin Sensitization Hydrochloric acid is not considered an occupational respiratory or skin sensitizer.</p> | | |
| Symptoms of Chronic Exposure | Skin irritation. | | |
| Irritancy of Product | Skin and eye irritant. | | |
| Other Toxicological Information | | | |
| Ingredient | LD ₅₀ | LC ₅₀ | TLV |
| Disodium Metasilicate | 1,153 mg/kg (Rat –Oral) | N/A | N/A |
| Tetrapotassium Pyrophosphate | N/A | N/A | N/A |
| Ethylene Glycol Monobutyl Ether | 1,230 mg/kg (Rat – Oral) | 450 ppm/4hr (Rat) | 20 ppm (97 mg/m ³) |
| Carcinogenicity: | | | |
| Chemical Name | IARC | ACGIH | OSHA |
| Disodium Metasilicate | N/A | N/A | N/A |
| Tetrapotassium Pyrophosphate | N/A | N/A | N/A |
| Ethylene Glycol Monobutyl Ether | Group 3 | A3 | N/A |

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| Legend: | IARC (International Agency for Research on Cancer) Group 3 – Not classifiable as to carcinogenicity in Humans ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen |
| Reproductive Toxicity: | No information available. |
| Germ Cell Mutagenicity: | No information available. |
| Interactive Effects: | No information available. |

SECTION 12 ECOLOGICAL INFORMATION

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| Ecotoxicity | | | | |
| Chemical Name | Ecotoxicity Freshwater Algae Data | Ecotoxicity Fish Species Data | Toxicity to Microorganisms | Crustacea |
| Disodium Metasilicate | Not Available | 210 mg/L LC ₅₀ (Brachydanio rerio) 96 h | Not Available | Not Available |
| Tetrapotassium Pyrophosphate | Not Available | 100 mg/L LC ₅₀ (Oncorhynchus mykiss) 96 h | Not Available | EC ₅₀ : >100mg/L (48h, water flea) |
| Ethylene Glycol Monobutyl Ether | Not Available | 1490 mg/L LC ₅₀ (Lepomis macrochirus) 96 h static 2950 mg/L LC ₅₀ (Lepomis macrochirus) 96 h | Not Available | EC ₅₀ : >1000mg/L (48h, Daphnia magna) |
| Persistence & Degradability | | No Information available. | | |
| Bioaccumulative Material | | | | |
| | | Chemical Name | Partition Coefficient | |
| | | Disodium Metasilicate | Not Available | |
| | | Tetrapotassium Pyrophosphate | Not Available | |
| | | Ethylene Glycol Monobutyl Ether | 0.81 | |
| Mobility in Soil | No Information available. | | | |
| Other Adverse Effects | No information available. | | | |

SECTION 13 DISPOSAL CONSIDERATIONS

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| Waste Disposal | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |
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SECTION 14 TRANSPORT INFORMATION

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| Shipping Name | Not Applicable |
| TDG | Not Regulated |
| DOT | Not Regulated |

SECTION 15 REGULATORY INFORMATION

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| All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories. |
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SECTION 16 OTHER INFORMATION

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| Date of Latest Revision | 21 February 2020 |
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification and Fabrikem Manufacturing Ltd. hereby specifically claims it shall not be held liable for any damage resulting from handling or from contact with the above products.

N/A = Not Available

N/E = Not Established