


SAFETY DATA SHEET

FABRIKEM® P.R. CLEANER

SECTION 01: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Fabrikem® P.R. Cleaner
Product Use:	Graffiti Removal Compound
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
Preparation Date of SDS:	4 April 2018
Revision Date of SDS:	21 February 2020
SDS Prepared By:	WHMIS Committee
Phone Number of Preparer:	604-532-3883
CANUTEC Emergency Number:	613-996-6666

SECTION 02: HAZARDOUS IDENTIFICATION

GHS Classification:	Corrosive to metals Category 1 Acute toxicity: Oral Category 3 Acute toxicity: Inhalation Category 4 Acute toxicity: Dermal Category 3 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Reproductive toxicity Category 2 Specific target organ toxicity – single exposure Category 3
GHS Labelling:	
Signal Word:	Danger
Hazard Statements:	H290 May be corrosive to metals. H301 Toxic if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Precautionary Statements:	<p>Prevention:</p> P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash face, hands and any exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. <p>Response:</p> P331 Do NOT induce vomiting. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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>Storage:</p> P405 Store locked up. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <p>Disposal:</p>

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	P501 Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Other hazards	

SECTION 03: HAZARDOUS INGREDIENTS

Ingredients:	CAS#	%	Common Name/Synonyms	Other Identifiers
Potassium Hydroxide	7732-18-5	10 - 30	Caustic Potash	KOH
Furfuryl Alcohol	98-00-0	7 - 13	Furfuryl Alcohol	FA
Tetrahydrofurfuryl Alcohol	97-99-4	7 - 13	Tetrahydro-2-furylmethanol	THFA

SECTION 04: FIRST AID MEASURES

General Advice:	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.
Inhalation:	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
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 immediate medical advice/attention.
Skin Contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
Ingestion:	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED -CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. 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 and effects, both acute and delayed:	Corrosive: Causes burns to the mouth, throat and stomach. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Causes severe skin irritation with tissue destruction. Ingestion may cause gastrointestinal irritation or ulceration. Symptoms may include nausea, headache, and vomiting. Inhalation of mist may cause damage to nasal and respiratory passages. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes skin burns which may not be immediately painful or visible.
Immediate medical attention and special treatment :	Treatment based on sound judgment of physician and individual reactions of patient. If burn is present, treat as any thermal burn, after decontamination. Emesis should be initiated unless there is evidence of burns of the oral mucosa. Gastric lavage may be advisable.

SECTION 05: FIRE FIGHTING MEASURES

Flammable:	No
Suitable Means of Extinction:	Use dry chemical, CO ₂ , alcohol foam, or water spray appropriate to surrounding fire.
Unsuitable Means of Extinction:	Do not use a solid stream of water. This may cause spattering and spread the fire.
Specific Hazards Arising from the Product:	Move containers from fire area if you can do it without risk. Use water spray to cool containers. Under fire conditions, toxic, corrosive fumes are emitted. It will react violently with many organic chemicals, especially nitro carbons and chlorocarbons. Caustic potash reacts with zinc, aluminum, tin, and other active metals liberating flammable hydrogen gas. Dilution with water evolves large amounts of heat. This material is corrosive to all human tissue.
Hazardous Combustion Products:	Flammable hydrogen gas.
Special Protective Equipment and Precautions Fire-Fighters:	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:	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
Methods for Containment and Cleaning Up.	Ventilate area. Isolate hazard area and restrict access. Contain spill and recover if possible. Absorb with an inert dry material and place in an appropriate waste disposal container. Neutralize traces with acetic or hydrochloric acid and flush with water. Collect washings for disposal.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not ingest. Spilled material may be slippery. Avoid breathing mist or vapor. When mixing, slowly add to water to minimize heat generation and spattering. Protect from freezing.
Conditions for Safe Storage:	Place away from incompatible materials. Keep containers tightly closed. Protect against moisture, water and physical damage. Keep at a temperature not exceeding 40 °C.

SECTION 08: EXPOSURE CONTROL/PERSONAL PROTECTION

Control Parameters				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	TWA	STEL
Potassium Hydroxide	No Data	2 mg/m ³	No Data	No Data
Furfuryl Alcohol	10 ppm	15 ppm	50 ppm	15 ppm
Tetrahydrofurfuryl Alcohol	No Data	No Data	No Data	No Data
Appropriate Engineering Controls:	Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations where vapors or mists may be generated.			
Individual Protection Measures:	Eye/Face Protection:	Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.		
	Hand Protection:	Butyl rubber gloves. Nitrile gloves. Neoprene gloves. Polyvinylchloride (PVC) gloves. Rubber gloves.		
	Skin and Body Protection:	Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance. Where risk of splashing or in spillage clean up, use chemical resistant one piece overall with integral hood. Chemical/oil resistant clothing.		
	Respiratory Protection:	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. In misty atmospheres, use an approved mist respirator.		
	General Hygiene Considerations:	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.		

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan to brown liquid
Odour:	Slight odour
Odour Threshold:	N/E

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pH:	13
Melting and Freezing Point:	< 0°C
Initial Boiling Point and Boiling Range:	> 100°C
Flash Point:	N/E
Evaporation Rate (n-butyl acetate = 1):	< 1
Flammability (solid, gas)	Non-flammable
Upper and Lower Flammability or Explosive Limit:	N/E
Vapour Pressure:	N/A
Vapour Density (air = 1):	>1
Relative Density (water = 1):	1.26 - 1.29
Solubility in Water:	Partially soluble
Solubility in Other Liquids	Alcohols
Partition Coefficient n-Octanol/Water (Log Kow)	N/E
N/E	465°C
Decomposition Temperature:	N/E
Viscosity:	N/E

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	N/E
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Trichloroethylene will react to form dichloroacetylene, which is spontaneously flammable.
Conditions to Avoid:	Incompatible materials. Exposure to air can form potassium carbonate.
Incompatible Materials:	Acids. Aluminum. Zinc. Metals and alloys. Tin. Contact with reactive metals may produce flammable hydrogen gas. Nitrocarbons, halocarbons. Organic chemicals.
Hazardous Decomposition Products:	Flammable hydrogen gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	
Inhalation:	Inhalation of mist may cause damage to nasal and respiratory passages. Irritation may lead to chemical pneumonitis and pulmonary edema.
Eye Contact:	Corrosive. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.
Skin Contact:	Corrosive. Causes severe skin irritation with tissue destruction. Causes skin burns which may not be immediately painful or visible.
Ingestion:	Causes burns to the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation or ulceration. Symptoms may include nausea, headache, and vomiting.

Acute Toxicity:	LC ₅₀	LD ₅₀ (oral)	LD ₅₀ (dermal)
Potassium Hydroxide	No Data	284/kg (Rat)	No Data
Furfuryl Alcohol	No Data	177 mg/kg (Rat)	3,825 mg/kg (Rat)
Tetrahydrofurfuryl Alcohol	No Data	No Data	No Data

Skin Corrosion/Irritation:	Corrosive. Causes severe skin irritation with tissue destruction. Causes skin burns which may not be immediately painful or visible.
Serious Eye Damage/Irritation:	Corrosive. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.
Specific Target Organ Toxicity (Single Exposure):	May cause respiratory irritation.
Aspiration Hazard:	May be fatal if swallowed and enters airways.
Specific Target Organ Toxicity (Repeated Exposure):	No information available.

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Respiratory and/or Skin Sensitization:	No information available.																
Carcinogenicity:																	
<table border="1"><thead><tr><th>Chemical Name</th><th>IARC</th><th>ACGIH</th><th>OSHA</th></tr></thead><tbody><tr><td>Potassium Hydroxide</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>Furfuryl Alcohol</td><td>2B</td><td>N/A</td><td>N/A</td></tr><tr><td>Tetrahydrofurfuryl Alcohol</td><td>N/A</td><td>N/A</td><td>N/A</td></tr></tbody></table>	Chemical Name	IARC	ACGIH	OSHA	Potassium Hydroxide	N/A	N/A	N/A	Furfuryl Alcohol	2B	N/A	N/A	Tetrahydrofurfuryl Alcohol	N/A	N/A	N/A	
Chemical Name	IARC	ACGIH	OSHA														
Potassium Hydroxide	N/A	N/A	N/A														
Furfuryl Alcohol	2B	N/A	N/A														
Tetrahydrofurfuryl Alcohol	N/A	N/A	N/A														
Legend:	IARC (International Agency for Research on Cancer) Group 2B - Possibly carcinogenic to humans.																
Reproductive Toxicity:	No information available.																
Germ Cell Mutagenicity:	No information available.																
Interactive Effects:	No information available.																

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:																								
<table border="1"><thead><tr><th>Chemical Name</th><th>Ecotoxicity Freshwater Algae Data</th><th>Ecotoxicity Fish Species Data</th><th>Toxicity to Microorganisms</th><th>Crustacea</th></tr></thead><tbody><tr><td>Potassium Hydroxide</td><td>Not Available</td><td>Not Available</td><td>Not Available</td><td>Not Available</td></tr><tr><td>Furfuryl Alcohol</td><td>Not Available</td><td>LC₅₀ - Pimephales promelas (fathead minnow) - 32 mg/l - 96 h</td><td>Not Available</td><td>Not Available</td></tr><tr><td>Tetrahydrofurfuryl Alcohol</td><td>Not Available</td><td>Not Available</td><td>Not Available</td><td>Not Available</td></tr></tbody></table>	Chemical Name	Ecotoxicity Freshwater Algae Data	Ecotoxicity Fish Species Data	Toxicity to Microorganisms	Crustacea	Potassium Hydroxide	Not Available	Not Available	Not Available	Not Available	Furfuryl Alcohol	Not Available	LC ₅₀ - Pimephales promelas (fathead minnow) - 32 mg/l - 96 h	Not Available	Not Available	Tetrahydrofurfuryl Alcohol	Not Available	Not Available	Not Available	Not Available				
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Tetrahydrofurfuryl Alcohol	Not Available	Not Available	Not Available	Not Available																				
Persistence and Degradability:	No information available.																							
Bioaccumulation:	No information available.																							
Component Information:	<table border="1"><thead><tr><th>Chemical Name</th><th>Partition Coefficient</th></tr></thead><tbody><tr><td>Potassium Hydroxide</td><td>0.65</td></tr><tr><td>Furfuryl Alcohol</td><td>0.28</td></tr><tr><td>Tetrahydrofurfuryl Alcohol</td><td>0.11</td></tr></tbody></table>	Chemical Name	Partition Coefficient	Potassium Hydroxide	0.65	Furfuryl Alcohol	0.28	Tetrahydrofurfuryl Alcohol	0.11															
Chemical Name	Partition Coefficient																							
Potassium Hydroxide	0.65																							
Furfuryl Alcohol	0.28																							
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Other Adverse Effects:	No information available.																							

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not reuse empty containers.
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SECTION 14: TRANSPORT INFORMATION

Shipping Name:	UN 1760, CORROSIVE LIQUID N.O.S. (CONTAINS POTASSIUM HYDROXIDE), Class 8, P.G. II
PIN:	1760
TDG:	UN 1760, CORROSIVE LIQUID N.O.S. (CONTAINS POTASSIUM HYDROXIDE), Class 8, P.G. II
DOT:	UN 1760, CORROSIVE LIQUID N.O.S. (CONTAINS POTASSIUM HYDROXIDE), Class 8, P.G. II
IMO:	N/E
ICAO:	N/E
ERAP:	N/E

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations															
U.S. Regulatory Rules															
<table border="1"><thead><tr><th>Chemical Name</th><th>CERCLA/SARA Section 302</th><th>SARA (311, 312) Hazard Class</th><th>CERCLA/SARA Section 313</th></tr></thead><tbody><tr><td>Potassium Hydroxide</td><td>Not Listed</td><td>Listed</td><td>Not Listed</td></tr><tr><td>Furfuryl Alcohol</td><td>Not Listed</td><td>Not Listed</td><td>Not Listed</td></tr></tbody></table>	Chemical Name	CERCLA/SARA Section 302	SARA (311, 312) Hazard Class	CERCLA/SARA Section 313	Potassium Hydroxide	Not Listed	Listed	Not Listed	Furfuryl Alcohol	Not Listed	Not Listed	Not Listed			
Chemical Name	CERCLA/SARA Section 302	SARA (311, 312) Hazard Class	CERCLA/SARA Section 313												
Potassium Hydroxide	Not Listed	Listed	Not Listed												
Furfuryl Alcohol	Not Listed	Not Listed	Not Listed												

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Tetrahydrofurfuryl Alcohol	Not Listed	Not Listed	Not Listed
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TSCA:	Complies
DSL/NDSL:	Complies
IARC Monograph:	Group 2B (Furfuryl Alcohol)
NFPA Rating:	Health = 3, Fire = 0, Instability = 0

SECTION 16: OTHER INFORMATION

Date of Latest Revision:	4 April 2018
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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 Applicable

N/E = Not Established