FABRIKEM® RESTORATION CLEANER TYPE S

SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	Fabrikem® Restoration Cleaner Type S
Recommended Use	Masonry Cleaning 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
Phone Number	604-532-3883 (Monday to Friday; 0800-1600 Pacific Time)
Preparation Date of SDS	21 November 2019
Revision Date of SDS	21 February 2020
SDS Prepared By	WHMIS Team
CANUTEC Emergency Number	613-996-6666 (Transport Emergencies)

SECTION 02 HAZARD IDENTIFICATION

ACUTE TOXICITY – DERMAL ACUTE TOXICITY – INHALATION (DUSTS & MISTS) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION Category 1 Signal Word Signal Word Base Patal if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H330 Fatal if inhaled. H335 May cause respiratory irritation. H350 May cause respiratory irritation. H350 May cause cancer by inhalation. Precautionary Statements P201 Obtain special instructions before use. Statements P202 Do not breathe mist, vapours or spray. P204 Keep only in original container. P260 Do not breathe mist, vapours or spray. P260 Do not breathe mist, vapours or spray. P260 Wash face, hands, and any exposed skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, protective clothing, eye protection, and face protection. P310 Immediately call a POISON CENTER or doctor/physician. P320 Specific treatment is urgent (see first aid treatment section 04 below). P301 +P330 + P351 FS WALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 FON SKIN (or hair): Remove/Take off immediately all contaminated clothing, Rinse skin. P305 + P351 + P338 FIN EYES: Rinse cautiously with water for several minutes.				
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hemove contact lenses, if present and easy to do. Continue mising.		Remove contact lenses, if present and easy to do. Continue	rinsing.	
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position		P304 + P340 IF INHALED: Remove victim to fresh air and k	eep at rest in a position	
comfortable for breathing.		comfortable for breathing.		

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	P310 Immediately call a POISON CENTER or doctor/physician.
	P390 Absorb spillage to prevent material damage.
	P363 Wash contaminated clothing before reuse.
	P405 Store locked up.
	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
	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 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	Concentration	Synonyms
Hydrogen Fluoride	7664-39-3	10 - 30	Hydrofluoric Acid
Phosphoric Acid	7664-38-2	10 - 30	Orthophosphoric acid

SECTION 04 FIRST AID MEASURES

Route of Exposure	
Inhalatio	3 11 / 3
	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.
Skin Contac	, , , , , , , , , , , , , , , , , , , ,
	of water while removing all contaminated clothes and shoes.
Eye Contac	
	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.
Ingestio	· · · · · · · · · · · · · · · · · · ·
	water and drink afterwards plenty of water. Never give anything by mouth to an
	unconscious person.
Self-protection of the	Ensure that medical personnel are aware of the material(s) involved, take precautions
First Aider	to protect themselves and prevent spread of contamination. Wear personal protective
	clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-
	mouth resuscitation. Avoid contact with skin, eyes or clothing.
Most Important	Corrosive to the respiratory passage. Symptoms include pain, redness and tearing.
Symptoms & Effects	Corrosive May cause permanent eye damage. May cause severe skin burns which will
	be slow in healing. The fluoride ion readily penetrates the skin causing destruction of
	deep tissue layers and even bone. The subcutaneous tissue may be affected, becoming
	blanched (whitened) and bloodless. Gangrene of the affected areas may follow. May
	cause sore throat, coughing, labored breathing and lung congestion / inflammation.
	May cause abdominal discomfort, nausea, vomiting and diarrhea. Corrosive! Effects on
	the skin may be delayed and damage may occur without the onset of pain. May cause
	kidney damage. May cause burns of the mouth, throat and stomach. Causes blurred
	vision.
Immediate Medical	Obtain medical assistance.
Attention & Special	
Treatment	

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Note to Physicians	Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. HF-Antidote Gel from IPS Healthcare is recommended as treatment for injuries from hydrofluoric acid. Treatment based on sound judgment of physician and individual reactions of patient. Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids aspiration. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Following exposure the patient should be kept under medical review for at least 48 hours as delayed pneumonitis may occur.
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SECTION 05 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam. Dry powder. Carbon dioxide.
Unsuitable Extinguishing Media	Water reactive. DO NOT use water or water-based extinguishers since it can generate heat and cause spattering if applied directly to either hydrofluoric or sulphuric acids.
Hazardous Combustion Products	On contact with metals, liberates hydrogen gas. On heating to decomposition, could yield toxic fumes of fluorides and sulphur. Attacks glass and other silicon containing compounds. Reacts with silica to produce silicon tetrafluoride, a hazardous colourless gas.
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

Personal Precautions,	Wear appropriate personal protective equipment (impervious gloves, safety		
Protective Equipment, and	glasses, protective clothing, face-shield). Ventilate area. Only enter area with		
Emergency Procedures	PPE. Stop or reduce leak if safe to do so.		
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 and Materials for	SMALL SPILLS: Contain and soak up spill with absorbent material which does not		
Containment and Cleaning Up	react with spilled chemical. Put material in suitable, covered, labeled		
	containers. Neutralize with soda ash (sodium carbonate) or lime over area of		
	spill. Flush area with water. Do not get water inside containers. Contaminated		
	absorbent material may pose the same hazards as the spilled product.		
	LARGE SPILLS: prevent contamination of waterways. Dike and pump into		
	suitable containers. Clean up residual with absorbent material, place in		
	appropriate container and flush with water. Spilled material may cause floors		
	and contact surfaces to become slippery. Neutralize with soda ash (sodium		
	carbonate) or lime over area of spill.		

SECTION 07 HANDLING AND STORAGE

Precautions for Safe Handling	Use caution when handling any chemical substance. When diluting an acid,
	ALWAYS add the acid slowly to water and stir well to avoid spattering. Wash

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	thoroughly after handling. Keep away from water. Do not breathe product vapour or mist. Wear all protective equipment. Do not swallow. Keep the containers closed when not in use. Avoid contact with eyes, skin and clothing. Use only dry, clean utensils in handling. Use with adequate ventilation.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area, out of direct sunlight and away from heat sources. Keep quantity stored as small as possible. Drums should be vented when received and then at least weekly to relieve internal pressure. Avoid storage with incompatible materials.

SECTION 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control

Parameters

Chamical Name	ACGIH TLV		OSHA PEL	
Chemical Name	TWA	STEL	TWA	STEL
Hydrogen Fluoride	0.5 mg/m ³	2 ppm	0.4 ppm	1 ppm
Phosphoric Acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	3 mg/m ³

Engineering	General	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure
Controls	General	and control of process conditions must be provided in accordance with all fire
Controls		·
		codes and regulatory requirements.
	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.
Personal	Gloves	Impervious gloves of chemically resistant material (rubber or PVC) should be
Protective		worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Equipment	Respirator	If the exposure limit is exceeded, a full facepiece respirator with an acid gas
		cartridge may be worn up to 50 times the exposure limit or the maximum use
		concentration specified by the appropriate regulatory agency or respirator
		supplier, whichever is lowest. For emergencies or instances where the exposure
		levels are not known, use a full-facepiece positive-pressure, air-supplied
		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 (rubber 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), Trellchem™
		HPS, Trellchem™ VPS, Tychem™ SL (Saranex™), Tychem™ CPF 3, Tychem™ F,
		Tychem™ BR/LV, Tychem™ Responder™, Tychem™ TK.
		CAUTION: use for short periods only (resistance to breakthrough within 1 to 4
		hours): Polyethylene
	Other	
	0.1101	

SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fuming liquid, slightly yellow to amber
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FABRIKEM® RESTORATION CLEANER TYPE S

Odour	Pungent odour
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Odour Threshold	Not Established
рН	<1
Melting/Freezing Point	-17°C
Initial Boiling Point/Range	100°C
Flash Point	N/A
Evaporation Rate (n-butyl acetate = 1)	Not Established
Flammability	Non-flammable
Lower Flammable/Explosive Limit	N/A
Upper Flammable/Explosive Limit	N/A
Vapour Pressure	Not Established
Vapour Density (air = 1)	3.4 @ 20°C
Relative Density	1.1 – 1.2
Solubility	Completely miscible
Partition Coefficient (n-octanol/water)	Not Established
Auto-Ignition Temperature	N/A
Decomposition Temperature	Not Established
Viscosity	Not Established

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Contact with hypochlorites liberates chlorine gas. May react violently
	with incompatible substances. Large amounts of heat can be released
	when concentrated acid is mixed with water or with organic solvents.
Chemical Stability	Stable, heat and contamination could cause decomposition.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	High temperatures. Incompatibles.
Incompatible Material	Bases (alkalies). Contact with organic materials (such as alcohol, acrylonitrile, chlorates, carbides, epichlorohydrin, fulminates, isoprene, nitrates and picrates) may cause fire and explosions. Contact with metals may produce flammable hydrogen gas. Reducing agents. Hydrofluoric acid is incompatible with arsenic trioxide, phosphorus pentoxide, ammonia, calcium oxide, sodium hydroxide, sulfuric acid, vinyl acetate, ethylenediamine, acetic anhydride, alkalis, organic materials, most common metals, rubber, leather, water, strong bases, carbonates, sulfides, cyanides, oxides of silicon, especially glass, concrete, silica, fluorine. Will also react with steam or water to produce toxic fumes. Strong oxidizing agents.
Hazardous Decomposition Products	On contact with metals, liberates hydrogen gas. On heating to decomposition, could yield toxic fumes of fluorides or sulfur. Attacks glass and other silicon containing compounds. Reacts with silica to produce silicon tetrafluoride, a hazardous colourless gas.

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, Skin, Eyes, Ingestion	
Symptoms of Acute Exposure	Skin Corrosion/Irritation Corrosive! Effects on the skin may be	
	delayed and damage may occur without the onset of pain.	

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al : 131				00114
Carcinogenicity:				
Phosphoric Acid	1,53	0 mg/kg	> 850 mg/m³ (Rat – 1 hr)	3.0 mg/m ³
Hydrofluoric Acid	>90 mL/kg		0.79 mg/L (Rat – 1 hr)	2.5 mg/m ³
Ingredient		LD ₅₀	LC ₅₀	TLV
Other Toxicological Information	n			
Irritancy of Product		Respiratory tract, skin and eye irritant.		
Symptoms of Chronic Exposure		Affection/discolouration of the teeth.		
		tearing.		
!		damage. Causes blurred vision. Symptoms include pain, redness and		
		Serious Eye Damage/Irritation Corrosive. May cause permanent eye		
		severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.		
		· ·	be fatal if inhaled. Inhalation of	• •
		1	ipse, and possibly death.	the mist may produce
			consequent pain, nausea, vomiti	ng, diarrhea,
		_	es severe burns of the mouth, es	
		_	grene of the affected areas may	
			ffected, becoming blanched (wh	
		_	leep tissue layers and even bone	-
		l	oride ion readily penetrates the	
		Hvdrofluoric Ac	id may cause severe skin burns v	which will be slow in

Chemical Name	IARC	ACGIH	OSHA
Hydrofluoric Acid	N/A	N/A	N/A
Phosphoric Acid	N/A	N/A	N/A

Reproductive Toxicity:	No information available.
Germ Cell Mutagenicity:	No information available.
Interactive Effects:	No information available.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Ecotoxicity Freshwater Algae Data	Ecotoxicity Fish Species Data	Toxicity to Microorganisms	Crustacea
Hydrofluoric Acid	Not Available	Not Available	Not Available	EC50: =270mg/L (48h, Daphnia species)
Phosphoric Acid	Not Available	Not Available	Not Available	Not Available

Persistence & No information available.

Degradability

Bioaccumulative Material

Chemical Name	Partition Coefficient
Hydrofluoric Acid	-1.4
Phosphoric Acid	N/A

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Other Adverse Effects	No information available.
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SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

Shipping	Proper Shipping Name: UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Hydrofluoric Acid and
Name	Phosphoric Acid), Class 8(6.1), Packing Group II
TDG	UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Hydrofluoric Acid and Phosphoric Acid), Class
	8(6.1), Packing Group II
DOT	UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Hydrofluoric Acid and Phosphoric Acid), Class
	8(6.1), Packing Group II

SECTION 15 REGULATORY INFORMATION

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.

SECTION 16 OTHER INFORMATION

Date of Latest	21 February 2020	
Revision		

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