

# MATERIAL SAFETY DATA SHEET

## SECTION 1 — PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER	FABRIKEM® RESTORATION CLEANER TYPE S	PRODUCT IDENTIFICATION NUMBER (PIN)	1760
PRODUCT USE	Masonry cleaning compound		
MANUFACTURER'S NAME	FABRIKEM MANUFACTURING LTD.	SUPPLIER'S NAME	
STREET ADDRESS	20361 Duncan Way	STREET ADDRESS	
CITY	Langley	CITY	
	PROVINCE B.C.	PROVINCE	
POSTAL CODE	V3A 7N3	POSTAL CODE	
	EMERGENCY PHONE NO. (604)532-3883	EMERGENCY PHONE NO.	

## SECTION 2 — HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD <sub>50</sub> OF INGREDIENT	LC <sub>50</sub> OF INGREDIENT
Hydrofluoric Acid	15 - 20	7664-39-3	No Data Found	638 ppm (4hr./Rat)
0-Phosphoric Acid	15 - 20	7664-38-2	1530 mg/kg (Rat/Oral)	> 850mg/m <sup>3</sup> (1hr./Rat)

## SECTION 3 — PHYSICAL DATA

PHYSICAL STATE	Liquid	ODOUR AND APPEARANCE	Pungent, acidic odour. Pale brown liquid.	ODOUR THRESHOLD (ppm)	1-35 ppm
VAPOUR PRESSURE (mm Hg)	22 @ 20°C	VAPOUR DENSITY (AIR = 1)	1.26 (HF)	EVAPORATION RATE (nBuAc = 1)	Not Established
				BOILING POINT (°C)	85.3
				FREEZING POINT (°C)	< 0
pH	< 1	SPECIFIC GRAVITY	1.19	COEFFICIENT OF WATER/OIL DISTRIBUTION	No Data
				WHMIS CLASSIFICATION	D1a; E

## SECTION 4 — FIRE AND EXPLOSION DATA

FLAMMABILITY	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHAT CONDITIONS? ▶			
MEANS OF EXTINCTION	Use media for surrounding fire and compatible with acid.			
FLASHPOINT (°C) AND METHOD	Not Applicable	UPPER FLAMMABLE LIMIT (% BY VOLUME)	Not Applicable	
		LOWER FLAMMABLE LIMIT (% BY VOLUME)	Not Applicable	
AUTOIGNITION TEMPERATURE (°C)	Not Available	HAZARDOUS COMBUSTION PRODUCTS	None	
EXPLOSION DATA	SENSITIVITY TO IMPACT	No	SENSITIVITY TO STATIC DISCHARGE	No

## SECTION 5 — REACTIVITY DATA

CHEMICAL STABILITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS? ▶
INCOMPATIBILITY WITH OTHER SUBSTANCES	Alkalis, cyanides, sulfides, most metals, or any chlorine releaser.
	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES? ▶
REACTIVITY, AND UNDER WHAT CONDITIONS	Never add water to acid always add acid to water for dilution. Contact with metals can evolve hydrogen gas.
HAZARDOUS DECOMPOSITION MATERIALS	Carbon monoxide, carbon dioxide, hydrogen fluoride gas, hydrogen gas, toxic oxides of phosphorus.

PRODUCT IDENTIFIER ► FABRIKEM® RESTORATION CLEANER TYPE S

## SECTION 6 — TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT  SKIN ABSORPTION  EYE CONTACT  INHALATION  INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT Extremely hazardous liquid and vapour. Severe inhalation, skin, and eye hazard. Severe burns which may not be immediately painful or visible. Destructive to tissue

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT May cause fluorosis. May cause erosion of teeth, lesions of skin, bronchial irritation, coughing, and pneumonia.

EXPOSURE LIMITS (TLV) TLV:3 ppm (HF)	IRRITANCY OF PRODUCT EYES: acute irritant. SKIN: acute irritant. INHALATION: respiratory irritant.	SENSITIZATION OF PRODUCT Not Established	CARCINOGENICITY No Data
TERATOGENICITY No Data	REPRODUCTIVE TOXICITY Not suspected	MUTAGENICITY No Data	SYNERGISTIC PRODUCTS No Data

## SECTION 7 — PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT  
Eye wash station and chemical safety shower.

GLOVES Impervious rubber or neoprene	RESPIRATOR Cartridge for < 50 ppm, SCBA	EYE PROTECTION Chemical Safety Goggles
FOOTWEAR Impervious rubber boots	CLOTHING Impervious, acid resistant	OTHER Accessible eye wash

ENGINEERING CONTROLS  
Provide general and local exhaust ventilation to meet TLV.

LEAK AND SPILL PROCEDURE  
Wear protective gear to avoid contact or inhalation. Mop or wipe up small spills (do not allow spill to enter storm sewers or contaminate ground water). Alternative method is to dike spill area, soak up with absorbent material and dispose of in an approved manner.

WASTE DISPOSAL  
Review all local, provincial, and federal regulations concerning health and pollution for appropriate disposal procedures.

HANDLING PROCEDURES AND EQUIPMENT  
Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. When diluting, slowly add cleaner to water to avoid splattering.

STORAGE REQUIREMENTS  
Store in a cool dry, well ventilated place away from incompatible substances. Keep containers tightly closed.

SPECIAL SHIPPING INFORMATION  
T.D.G. Classification: CORROSIVE LIQUID N.O.S. (CONTAINS HYDROFLUORIC ACID & PHOSPHORIC ACIDS); CLASS 8;  
UN 1760; PACKING GROUP II

## SECTION 8 — FIRST AID MEASURES

SPECIFIC MEASURES  
EYES: Immediately flush with plenty of water for at least 30 minutes, lifting the eyelids occasionally. Obtain immediate medical attention.  
SKIN: If contact is even suspected, first aid should be started immediately. Call physician immediately. Immediately flush with large quantities of water for at least 15 minutes, while removing contaminated clothing. Pay particular attention to skin under nails. Immerse and soak contaminated area in a 0.13% iced benzalconium chloride solution for 30-60 minutes. If this solution is not available, continue washing until medical attention is obtained. Get immediate medical attention.  
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Obtain medical attention.  
INGESTION: Do not induce vomiting. Dilute by drinking large quantities of water or milk. Obtain immediate medical attention.

## SECTION 9 — PREPARATION OF MSDS

PREPARED BY W.H.M.I.S. Committee	PHONE NUMBER (604) 532-3883	DATE
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