

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER	FABRIKEM® METALLIC STAIN REMOVER TYPE V	PRODUCT IDENTIFICATION NUMBER (PIN)	1786
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 ₅₀ OF INGREDIENT	LC ₅₀ OF INGREDIENT
Hydrofluoric Acid	15 - 20	7664-39-3	No Data	638 ppm (4 hr./Rat)
Sulphuric Acid	15 - 20	7664-93-9	2140 mg/kg (Rat/Oral)	510 mg/m ³ (2 hr./Rat)

SECTION 3 — PHYSICAL DATA

PHYSICAL STATE	Liquid	ODOUR AND APPEARANCE	Sharp, pungent, irritating odour. Amber coloured liquid.	ODOUR THRESHOLD (ppm)	1-35 ppm
VAPOUR PRESSURE (mm Hg)	124 @ 20°C	VAPOUR DENSITY (AIR = 1)	Not Available	EVAPORATION RATE (nBuAc = 1)	< 1
				BOILING POINT (°C)	100
					FREEZING POINT (°C) -30
pH	< 1	SPECIFIC GRAVITY	1.14	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, carbides, solvents.	
	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES?	
REACTIVITY, AND UNDER WHAT CONDITIONS	High temperatures, contact with incompatible materials. May polymerize violently with vinyl acetate.	
HAZARDOUS DECOMPOSITION MATERIALS	Toxic and corrosive gas and vapour (hydrogen chloride); hydrogen gas when in contact with metals, hydrogen cyanide and hydrogen sulphide when in contact with cyanides and sulphides.	

PRODUCT IDENTIFIER	FABRIKEM® METALLIC STAIN REMOVER TYPE V
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SECTION 6 — TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	SKIN CONTACT <input checked="" type="checkbox"/>	SKIN ABSORPTION <input checked="" type="checkbox"/>	EYE CONTACT <input checked="" type="checkbox"/>	INHALATION <input checked="" type="checkbox"/>	INGESTION <input checked="" type="checkbox"/>
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EFFECTS OF ACUTE EXPOSURE TO PRODUCT Skin and eyes: severe burns and irritation. Inhalation: coughing and choking, inflammation and ulceration of the respiratory tract, may cause pulmonary edema. Ingestion: severe internal damage, may be fatal.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT Prolonged exposure may cause erosion of teeth and chronic bronchitis. Prolonged or repeated contact to dilute solutions may cause dermatitis.

EXPOSURE LIMITS (TLV) 25 ppm on skin	IRRITANCY OF PRODUCT EYES: acute irritant. SKIN: severe 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
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 absorbant material and dispose of in an approved manner. Vapours can be knocked down with water fog or spray.

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.

SPECIAL SHIPPING INFORMATION
T.D.G. Classification: HYDROFLUORIC ACID AND SULPHURIC ACID MIXTURE; CLASS 8 (6.1); UN 1786; PACKING GROUP I

SECTION 8 — FIRST AID MEASURES

SPECIFIC MEASURES
EYES: Immediately flush with plenty of water for at least 15 minutes. Obtain prompt medical attention.
SKIN: Remove contaminated clothing and wash before re-use. Thoroughly flush skin with water for 15 minutes. Obtain medical attention if irritation persists.
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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