


# SAFETY DATA SHEET

FABRIKEM® VERSAGUARD

## SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

<b>Product Identifier</b>	Fabrikem® Versaguard
<b>Recommended Use</b>	Removal of encrusted concrete from tools and equipment.
<b>Manufacturer's Name</b>	Fabrikem Manufacturing Ltd. 20361 Duncan Way, Langley, BC V3A 7N3
<b>Supplier's Name</b>	Fabrikem Manufacturing Ltd. 20361 Duncan Way, Langley, BC V3A 7N3
<b>Phone Number</b>	604-532-3883 (Monday to Friday; 0800-1600 Pacific Time)
<b>Preparation Date of SDS</b>	21 November 2019
<b>Revision Date of SDS</b>	21 February 2020
<b>SDS Prepared By</b>	WHMIS Team
<b>CANUTEC Emergency Number</b>	613-996-6666 (Transport Emergencies)

## SECTION 02 HAZARD IDENTIFICATION

<b>Hazard Classification</b>	SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION	Category 1 Category 1
<b>Label Elements</b>		
<b>Symbols</b>		
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.	
<b>Precautionary Statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P234 Keep only in original container. P260 Do not breathe mist, vapours or spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash face, hands, and any exposed skin thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection, and face protection. P310 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. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. 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 comfortable for breathing. 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.	
<b>Other Hazards</b>		

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## SECTION 03 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	Concentration	Synonyms
Urea Monohydrochloride	506-89-8	10 - 30	Urea Hydrochloride

## SECTION 04 FIRST AID MEASURES

<b>Route of Exposure</b>	
<b>Inhalation</b>	Remove 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.
<b>Skin Contact</b>	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye Contact</b>	Get immediate medical advice/attention. 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.
<b>Ingestion</b>	Get immediate medical advice/attention. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.
<b>Self-protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions 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.
<b>Most Important Symptoms &amp; Effects</b>	Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Corrosive to eye tissue and may cause severe damage and blindness. Coughing, shortness of breath, headaches and confusion may occur. Causes vomiting, nausea, and diarrhea. Vapors may cause pulmonary edema. Corrosive! May cause severe pain in the mouth, chest and abdomen, leading to cough, vomiting and collapse. Contact with the skin may cause severe irritation, burns or tissue destruction. Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Can cause chemical bronchitis. May cause adverse eye effects such as conjunctivitis or corneal damage.
<b>Immediate Medical Attention &amp; Special Treatment</b>	Obtain medical assistance.
<b>Note to Physicians</b>	Treatment based on sound judgment of physician and individual reactions of patient.

## SECTION 05 FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Not Available.
<b>Hazardous Combustion Products</b>	Heat may liberate corrosive and toxic Hydrogen Chloride gas. Hydrogen Chloride is denser than air and will accumulate in low lying areas. In the event of a fire oxides of nitrogen and carbon may be released.

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<b>Special Fire Fighting Procedures</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## SECTION 06 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Wear appropriate personal protective equipment (impervious gloves, safety glasses, protective clothing, face-shield). Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.
<b>Environmental Precautions</b>	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.
<b>Methods and Materials for Containment and Cleaning Up</b>	SMALL SPILLS: Contain and soak up spill with absorbent material which does not 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

<b>Precautions for Safe Handling</b>	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Avoid generating vapours, fumes, or mists. Prevent the release of vapours, fumes, or mists into the workplace air. Inspect containers for damage or leaks before handling. If the original label is damaged or missing, replace with a workplace label.
<b>Conditions for Safe Storage</b>	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

<b>Control Parameters</b>					
	<b>Chemical Name</b>	<b>ACGIH TLV</b>		<b>OSHA PEL</b>	
		<b>TWA</b>	<b>STEL</b>	<b>TWA</b>	<b>STEL</b>
	Hydrogen Chloride	2.8 mg/m <sup>3</sup>	N/A	7 mg/m <sup>3</sup>	N/A
<b>Engineering Controls</b>	<b>General</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements.			
	<b>Local Exhaust</b>	Supply sufficient replacement air to make up for air removed by exhaust systems.			

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	<b>Other</b>	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.
<b>Personal Protective Equipment</b>	<b>Gloves</b>	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
	<b>Respirator</b>	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.
	<b>Eye</b>	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.
	<b>Footwear</b>	Impervious footwear of chemically resistant material (rubber or PVC) should be worn at all times.
	<b>Clothing</b>	RECOMMENDED (resistance to breakthrough longer than 8 hours): Butyl rubber, Neoprene rubber, Nitrile.
	<b>Other</b>	

## SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid, slightly yellow to amber
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not Established
<b>pH</b>	<1
<b>Melting/Freezing Point</b>	-20°C
<b>Initial Boiling Point/Range</b>	100°C
<b>Flash Point</b>	N/A
<b>Evaporation Rate (n-butyl acetate = 1)</b>	Not Established
<b>Flammability</b>	Non-flammable
<b>Lower Flammable/Explosive Limit</b>	N/A
<b>Upper Flammable/Explosive Limit</b>	N/A
<b>Vapour Pressure</b>	Not Established
<b>Vapour Density (air = 1)</b>	1.3 @ 20°C
<b>Relative Density</b>	1.2
<b>Solubility</b>	Completely miscible
<b>Partition Coefficient (n-octanol/water)</b>	Not Established
<b>Auto-Ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	Not Established
<b>Viscosity</b>	Not Established

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	May react with metals to form explosive hydrogen gas. May corrode metals. Reacts with alkalis to generate significant heat.
<b>Chemical Stability</b>	Stable; heat and contamination could cause decomposition.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	High temperatures. Incompatibles.

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<b>Incompatible Material</b>	Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Routes of Exposure</b>	Inhalation, Skin, Eyes, Ingestion		
<b>Symptoms of Acute Exposure</b>	<b>Skin Corrosion/Irritation</b> Corrosive! Effects on the skin may be delayed and damage may occur without the onset of pain. <b>Ingestion</b> Causes severe burns of the mouth, esophagus, and stomach. <b>Inhalation</b> Causes severe burns to the mouth and throat. <b>Serious Eye Damage/Irritation</b> Corrosive. May cause permanent eye damage. Causes blurred vision. Symptoms include pain, redness and tearing.		
<b>Symptoms of Chronic Exposure</b>	Affection/discolouration of the teeth.		
<b>Irritancy of Product</b>	Respiratory tract, skin and eye irritant.		
<b>Other Toxicological Information</b>			
Ingredient	LD <sub>50</sub>	LC <sub>50</sub>	TLV
Urea Monohydrochloride	N/E	N/E	N/E
<b>Carcinogenicity:</b>			
<b>Chemical Name</b>	<b>IARC</b>	<b>ACGIH</b>	<b>OSHA</b>
Urea Monohydrochloride	N/A	N/A	N/A
<b>Reproductive Toxicity:</b>	No information available.		
<b>Germ Cell Mutagenicity:</b>	No information available.		
<b>Interactive Effects:</b>	No information available.		

## SECTION 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>				
<b>Chemical Name</b>	<b>Ecotoxicity Freshwater Algae Data</b>	<b>Ecotoxicity Fish Species Data</b>	<b>Toxicity to Microorganisms</b>	<b>Crustacea</b>
Urea Monohydrochloride	Not Available	Not Available	Not Available	Not Available
<b>Persistence &amp; Degradability</b>	No information available.			
<b>Bioaccumulative Material</b>	No Information Available			
<b>Other Adverse Effects</b>	No information available.			

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	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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<b>Shipping Name</b>	Proper Shipping Name: UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Urea Monohydrochloride), Class 8, Packing Group III
<b>TDG</b>	UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Urea Monohydrochloride), Class 8, Packing Group III
<b>DOT</b>	UN 1760, CORROSIVE LIQUID N.O.S. (Contains: Urea Monohydrochloride), Class 8, Packing Group III

## 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

21 February 2020      21 February 2020

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