

# SAFETY DATA SHEET

FABRIKEM® MOSS & ALGAE CLEANER TYPE 320

## SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

<b>Product Identifier</b>	Fabrikem® Moss & Algae Cleaner Type 320
<b>Recommended Use</b>	Masonry Cleaning Compound
<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>	OXIDIZING LIQUIDS ACUTE TOXICITY – INHALATION (DUSTS/MISTS) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Category 2 Category 4 Category 1A Category 1 Category 3
<b>Label Elements</b>		
<b>Symbols</b>		
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation.	
<b>Precautionary Statements</b>	P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P220 Keep/Store away from clothing and combustible materials. P221 Take any precaution to avoid mixing with combustibles. P260 Do not breathe mist, vapours or spray. 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. P280 Wear protective gloves, protective clothing, eye protection, and face protection. 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. P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol resistant foam for extinction. P363 Wash contaminated clothing before reuse.	

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	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>	Harmful to aquatic life.

## SECTION 03 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	Concentration	Synonyms
Hydrogen Peroxide	7722-84-1	10 - 30	
Sodium Gluconate	527-07-1	0.1 – 1.0	

## 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. Delayed pulmonary edema may occur.
<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>	May cause conjunctivitis, corneal burns and permanent damage. May cause burns resulting in permanent damage. Prolonged exposure may cause severe irritation and white discoloration. Burning may result in localized erythema (redness) or even blistering of the skin. Corrosive Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. Causes severe respiratory irritation. Ingestion of high concentrations causes rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage (bleeding, ulceration or perforation). Expected to cause burns to the gastrointestinal tract. Symptoms may occur with delay. Toxic effects may be delayed. Vapors may cause pulmonary edema.
<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.

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## SECTION 05 FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Do not use CO <sub>2</sub> extinguisher on this material; use only water spray or appropriate foam. Do not use organic compounds on this material.
<b>Unsuitable Extinguishing Media</b>	Carbon Dioxide.
<b>Hazardous Combustion Products</b>	Contact with combustible materials may cause a fire. Release of oxygen may support combustion. Contact with incompatible materials (e.g. metals, alkalis and reducing agents) will cause hazardous decomposition resulting in the release of large quantities of heat, steam and oxygen gas. Exposure to heat may cause hazardous decomposition. A severe detonation hazard may exist when mixed with organic liquids, e.g. kerosene or gasoline. Stop leak only if safe to do so. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from the end of tanks. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which could result in container rupture. Stay upwind. Fight fire from a safe distance and from a protected location. Isolate and restrict area access. Strong oxidizer.
<b>Special Fire Fighting Procedures</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 06 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	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.
<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. Flush area with water. 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.

## SECTION 07 HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Corrosive. Empty containers may contain hazardous product residues. Avoid breathing mist or vapor. Wash thoroughly after handling. Protect material from direct sunlight. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Never use air pressure to empty a container.
<b>Conditions for Safe Storage</b>	Keep containers tightly closed. Do not confine product in unvented vessels or between closed valves. Risk of overpressure and bursting due to decomposition in confined spaces and pipes. Store in a cool, dry, well ventilated area. Do not store near combustible materials. Do not store this material in containers made of light metals. Recommended container materials: glass, polyvinyl chloride, polyethylene, ceramics, polypropylene. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. Protect from direct sunlight and heat.

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## SECTION 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters				
	ACGIH TLV		OSHA PEL	
	TWA	STEL	TWA	STEL
Chemical Name				
Hydrogen Peroxide	1.4 mg/m <sup>3</sup>	N/A	1.4 mg/m <sup>3</sup>	N/A
Sodium Gluconate	N/E	N/E	N/E	N/E

  

<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.
	<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 (butyl rubber, natural rubber, or nitrile) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
	<b>Respirator</b>	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.
	<b>Eye</b>	Face protection shield. Contact lenses should not be worn; they may contribute to severe eye injury.
	<b>Footwear</b>	Impervious footwear of chemically resistant material (butyl rubber, natural rubber, or nitrile) 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>	
<b>General Hygiene Considerations</b>	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

<b>Appearance</b>	Clear liquid
<b>Odour</b>	Slight pungent
<b>Odour Threshold</b>	Not Established
<b>pH</b>	3.3
<b>Melting/Freezing Point</b>	-25°C
<b>Initial Boiling Point/Range</b>	108°C
<b>Flash Point</b>	N/A
<b>Evaporation Rate (n-butyl acetate = 1)</b>	<1
<b>Flammability</b>	N/A
<b>Lower Flammable/Explosive Limit</b>	N/A
<b>Upper Flammable/Explosive Limit</b>	>40

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Vapour Pressure	3.33 kPa
Vapour Density (air = 1)	1.17 @ 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	Stable
Chemical Stability	Stable; heat and contamination could cause decomposition.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	High temperatures. Spontaneous combustion hazard: Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles, can cause the material to ignite and result in a fire.
Incompatible Material	Combustible material. Alkalis. Organic materials. Heavy metals and their salts. Metals. Reducing agents.
Hazardous Decomposition Products	Oxygen. Steam.

## SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, Skin, Eyes, Ingestion		
Symptoms of Acute Exposure	<p><b>Skin Corrosion/Irritation</b> Corrosive. May cause burns resulting in permanent damage. Prolonged exposure may cause severe irritation and white discoloration. Burning may result in localized erythema (redness) or even blistering of the skin.</p> <p><b>Ingestion</b> Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. Ingestion of high concentrations causes rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage (bleeding, ulceration or perforation). Expected to cause burns to the gastrointestinal tract.</p> <p><b>Inhalation</b> Vapors may cause pulmonary edema. Causes severe respiratory irritation. Toxic effects may be delayed.</p> <p><b>Serious Eye Damage/Irritation</b> Corrosive. May cause conjunctivitis, corneal burns and permanent damage. Symptoms may occur with delay.</p>		
Symptoms of Chronic Exposure	Redness. Burning. May cause blindness. Coughing and/ or wheezing.		
Irritancy of Product	Respiratory tract, skin and eye irritant.		
Other Toxicological Information			
Ingredient	LD <sub>50</sub>	LC <sub>50</sub>	TLV
Hydrogen Peroxide	1,518 mg/kg	2,000 ppm (Rat – 4 hr)	1.4 mg/m <sup>3</sup>
Sodium Gluconate	N/A	N/A	N/A

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## Carcinogenicity:

Chemical Name	IARC	ACGIH	OSHA
Hydrogen Peroxide	Group 3	A3	N/A
Sodium Gluconate	N/A	N/A	N/A

**Legend:** IARC (International Agency for Research on Cancer) Group 3 – Not classifiable as to Carcinogenic in Humans.  
ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen.

**Reproductive Toxicity:** It is not possible to conclude that hydrogen peroxide is mutagenic. Positive results have been obtained in cultured humans cells. Negative results have been obtained in relevant studies using live animals. Positive results have been obtained in short-term mutagenicity tests.

**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
Hydrogen Peroxide	Not Available	16.4 mg/L LC <sub>50</sub> Pimephales promelas (96 hr) 18 - 56 mg/L LC <sub>50</sub> Lepomis macrochirus (96 h static) 10.0 - 32.0 mg/L LC <sub>50</sub> Oncorhynchus mykiss (96 h static)	Not Available	EC <sub>50</sub> : 18 - 32mg/L (48h, Daphnia magna)
Sodium Gluconate	Not Available	Not Available	Not Available	Not Available

**Persistence & Degradability** No information available.

**Bioaccumulative Material** No Information Available

**Other Adverse Effects** No information available.

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORT INFORMATION

<b>Shipping Name</b>	Not regulated
<b>TDG</b>	Not regulated
<b>DOT</b>	Not regulated

## 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.

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## **SECTION 16 OTHER INFORMATION**

21 February 2020	21 February 2020
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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 Available

N/E = Not Established