

SAFETY DATA SHEET

FABRIKEM® HEAVY DUTY DEGREASER

SECTION 01 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	Fabrikem® Heavy Duty Degreaser
Recommended Use	Concrete 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 2017
Revision Date of SDS	21 February 2020
SDS Prepared By	WHMIS Team
CANUTEC Emergency Number	613-996-6666 (Transport Emergencies)

SECTION 02 HAZARD IDENTIFICATION

Hazard Classification	CORROSIVE TO METALS ACUTE TOXICITY - ORAL ACUTE TOXICITY - DERMAL ACUTE TOXICITY - INHALATION SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) ASPIRATION TOXICITY	Category 1 Category 4 Category 4 Category 4 Category 2 Category 1 Category 3 Category 1
Label Elements		
Symbols		
Signal Words	Danger	
Hazard Statements	H227 Combustible liquid. H290 May be corrosive to metals. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.	
Precautionary Statements	P234 Keep only in original container. P260 Do not breathe mist, vapours or spray. P264 Wash hands 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/face protection. P301 + P310 + P330 + P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin.	

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	<p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.</p>
Other Hazards	

SECTION 03 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	%	Synonyms
Disodium Metasilicate	6834-92-0	10 - 15	Metso
Ethylene Glycol Monobutyl Ether	111-76-2	10 - 15	Glycol Ether EB

SECTION 04 FIRST AID MEASURES

Route of Exposure	
Inhalation	Remove victim 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. Seek medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Eye Contact	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. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).
Most Important Symptoms & Effects	<p>Symptoms/effects: Causes burns to skin, mouth, throat, stomach, and eyes.</p> <p>Symptoms/effects after inhalation: Possible inflammation of the respiratory tract.</p> <p>Symptoms/effects after skin contact: Caustic burns/corrosion of the skin.</p> <p>Symptoms/effects after eye contact: Causes serious eye damage.</p> <p>Symptoms/effects after ingestion: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhea.</p>

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Immediate Medical Attention & Special Treatment	Obtain medical assistance. Treatment based on sound judgment of physician and individual reactions of patient.
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SECTION 05 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Sand.
Specific Hazards Arising from the Substance or Mixture	Isolate and restrict area access. Stop leak only if safe to do so. Move containers from fire area if you can do it without risk. Fight fire from a safe distance and from a protected location. Use flooding quantities of water for fire and water spray or fog for vapors. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which could result in container rupture. This material may produce a floating fire hazard in extreme fire conditions. This product can produce flammable vapors which may travel to a source of ignition and flash back. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous Combustion Products	Carbon monoxide. Hydrogen. Aldehydes. Ketones. Organic acids.
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, Protective Equipment, and Emergency Procedures	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.
Methods and Materials for Containment and Cleaning Up	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

SECTION 07 HANDLING AND STORAGE

Precautions for Safe Handling	Combustible. For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.
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Conditions for Safe Storage	Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Do not store in aluminum, copper, copper alloys and galvanized containers.
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SECTION 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	TWA	STEL
Disodium Metasilicate	N/A	N/A	N/A	N/A
Ethylene Glycol Monobutyl Ether	97 mg/m ³	N/A	120 mg/m ³	240 mg/m ³

Engineering Controls	General	Use in a well ventilated area.
	Local Exhaust	Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
	Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.
Personal Protective Equipment	Gloves	Impervious gloves of chemically resistant material (butyl rubber, nitrile, Viton™ or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
	Respirator	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved 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 (butyl rubber, nitrile, Viton™ 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), Trelchem™ HPS, Trelchem™ VPS, Tychem™ SL (Saranex™), Tychem™ CPF 3, Tychem™ F, Tychem™ BR/LV, Tychem™ Responder™, Tychem™ TK.
	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.

SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless
Odour	Ether
Odour Threshold	No information available
pH	>10
Melting/Freezing Point	>-40°C
Initial Boiling Point/Range	170°C

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Flash Point	>65°C
Evaporation Rate (n-butyl acetate = 1)	<0.1
Flammability (solid, gas)	No data available
Lower Flammable/Explosive Limit	1.3
Upper Flammable/Explosive Limit	10.6
Vapour Pressure	0.4 mm Hg (at 20°C)
Vapour Density (air = 1)	N/E
Relative Density	0.95
Solubility	Completely miscible
Partition Coefficient (n-octanol/water)	N/E
Auto-Ignition Temperature	244°C
Decomposition Temperature	No data available

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	Avoid excessive heat, open flames and all ignition sources. Generation of gas during decomposition can cause pressure in closed systems. Avoid contact with metals such as: zinc, lead, magnesium, aluminum and galvanized metals. Do not distill to dryness. Product can oxidize at elevated temperatures.
Incompatible Material	Strong bases. Oxidizing agents. Strong acids.
Hazardous Decomposition Products	Decomposition products can include and are not limited to: Carbon Monoxide, hydrogen, aldehydes. Ketones, and organic acids.

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, Skin, Eyes, Ingestion		
Symptoms of Acute Exposure	<p>Skin Corrosion/Irritation Causes skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded (scratched or cut).</p> <p>Ingestion Causes severe burns of the mouth, esophagus, and stomach, with consequent pain, nausea, vomiting, diarrhea, circulatory collapse, and possibly death.</p> <p>Inhalation May cause headache. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.</p> <p>Serious Eye Damage/Irritation Corrosive. Causes eye burns. Symptoms include pain, redness and tearing. Effects may be slow to heal. May cause severe eye irritation. May cause corneal injury.</p> <p>Respiratory or Skin Sensitization Hydrochloric acid is not considered an occupational respiratory or skin sensitizer.</p>		
Symptoms of Chronic Exposure	Skin irritation.		
Irritancy of Product	Skin and eye irritant.		
Other Toxicological Information			
Ingredient	LD₅₀	LC₅₀	TLV
Disodium Metasilicate	1,153 mg/kg (Rat –Oral)	N/A	N/A
Ethylene Glycol Monobutyl Ether	1,230 mg/kg (Rat – Oral)	450 ppm/4hr (Rat)	20 ppm (97 mg/m ³)

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Carcinogenicity:

Chemical Name	IARC	ACGIH	OSHA
Disodium Metasilicate	N/A	N/A	N/A
Ethylene Glycol Monobutyl Ether	Group 3	A3	N/A

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

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
Disodium Metasilicate	Not Available	210 mg/L LC ₅₀ (Brachydanio rerio) 96 h	Not Available	Not Available
Ethylene Glycol Monobutyl Ether	Not Available	1490 mg/L LC ₅₀ (Lepomis macrochirus) 96 h static 2950 mg/L LC ₅₀ (Lepomis macrochirus) 96 h	Not Available	EC ₅₀ : >1000mg/L (48h, Daphnia magna)

Persistence & Degradability No Information available.

Bioaccumulative Material

Chemical Name	Partition Coefficient
Disodium Metasilicate	Not Available
Ethylene Glycol Monobutyl Ether	0.81

Mobility in Soil 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

Shipping Name	Not Applicable
TDG	Not Regulated
DOT	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

Date of Latest Revision	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