

MATERIAL SAFETY DATA SHEET

MANUFACTURERS NAME: INNOVATIVE MANUFACTURING INC.
861 DERWENT WAY, ANNACIS ISLAND,
NEW WESTMINSTER, BC. V3M 5R4

EMERGENCY/INFORMATION. PHONE: 522-2811/ CANUTEC (613) 996-6666

*****S

SECTION 1: PRODUCT IDENTIFICATION.

PRODUCT NAME: Etchcrete. PRODUCT NUMBER: 3408.

WHMIS CLASSIFICATION: E.
HMIS. Rating: HEALTH: 3 FLAMMABILITY: 0
REACTIVITY: 0 PERSONAL PROTECTION: D.

SECTION 2: HAZARDOUS INGREDIENTS.

INGREDIENT:	CAS. NUMBER	% w/w	TLV.
HYDROCHLORIC ACID.	7647-01-0	10-15	5 ppm (air).

LD 50: LC 50:
900 mg/Kg. Oral, Rat. 1562 ppm. rat.

*****S

SECTION 3: PHYSICAL DATA.

PHYSICAL STATE AND APPEARANCE: Colourless liquid.
ODOUR: Pungent odour.
VAPOUR PRESSURE: No data available.
VAPOUR DENSITY: No data available.
EVAPORATION RATE: No data available.
BOILING POINT: 95° C (approx.)
FREEZING POINT: -7° C (approx.)
SOLUBILITY IN WATER: Complete.
SPECIFIC GRAVITY: 1.1
pH: 1.3 (1% W/V Solution).
VOC: 0 g/L

SECTION 4: FIRE AND EXPLOSION DATA.

FLAMMABILITY CLASSIFICATION: Not flammable.

MEANS OF EXTINCTION: Water, foam, CO2 or dry chemical.

FLAMMABLE LIMITS: Not applicable.
FLASH POINT AND METHOD: None (TCC).
AUTOIGNITION TEMPERATURE: Not applicable.

SENSITIVITY TO IMPACT: Not Sensitive.

SENSITIVITY TO STATIC DISCHARGE: Not Sensitive.

HAZARDOUS COMBUSTION PRODUCTS:

Will produce fumes and other hazardous decomposition products.
Contact with some metals, such as aluminum magnesium or zinc may generate flammable or explosive hydrogen gas.

SPECIAL FIRE FIGHTING PROCEDURES: Water solutions are corrosive.
When fire fighting, wear full protective equipment including self-contained breathing apparatus.

*****S

SECTION 5: REACTIVITY DATA.

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY WITH OTHER SUBSTANCES ? Yes.

WHICH ONES ? Alkalis, chlorine donors, aluminum, magnesium, zinc & amines.

REACTIVITY AND UNDER WHAT CONDITIONS ? Not reactive.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition emits toxic fumes of HCl.

SECTION 6: TOXICOLOGICAL PROPERTIES.

ROUTES OF ENTRY FOLLOW:

SKIN CONTACT: Corrosive to skin.
SKIN ABSORPTION: No data available.
EYE CONTACT: Corrosive to eyes.
Vapours are irritating to the eyes.
INHALATION: Harmful if inhaled.
INGESTION: Harmful if swallowed.

EFFECTS OF ACUTE EXPOSURE: As above.

EFFECTS OF CHRONIC EXPOSURE Causes eye & skin irritation & burns.
Harmful if swallowed or inhaled.

EXPOSURE LIMITS: 5 ppm.

IRRITANCY OF PRODUCT: Irritant to all parts of the body.

SENSITIZATION: None known.

CARCINOGENICITY, TERATOGENICITY & MUTAGENICITY,
REPRODUCTIVE TOXICITY & SYNERGISTIC PRODUCTS: No data Avail.

*****S

SECTION 7: PREVENTIVE MEASURES.

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: Wear long rubber or synthetic rubber gloves.
EYE: Wear chemical Goggles or full face shield.
FOOTWEAR: Rubber boots are recommended.
CLOTHING: Rubber apron is recommended.
OTHER: Have eye-wash & safety shower available.

ENGINEERING CONTROLS: Local exhaust.

RESPIRATION: If TLV is exceeded, a NIOSH approved respirator with an acid gas cartridge or supplied air respirator is required.

LEAK AND SPILL PROCEDURES: Ventilate area, and contain spill. Wearing recommended protective equipment, carefully add lime or Soda ash (Sodium carbonate) to neutralize the acid. Pick up spilled material, place into disposal container & remove to outdoors for disposal. Flush spill area with water; collect rinse water for disposal or flush to sewer, as appropriate.

WASTE DISPOSAL: This product, if disposed as shipped, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of its corrosivity. Dispose of product in a licensed hazardous waste disposal facility in accordance with all applicable laws.

HANDLING PROCEDURES AND STORAGE REQUIREMENTS:

Store in a cool, dry, well ventilated area.
DO NOT add Etchcrete to hypochlorite bleaches, chlorine sanitizers or chlorinated cleaners as this liberates toxic, corrosive, chlorine gas.

DOT SHIPPING DATA:

Hydrochloric Acid Solution, CLASS 8, UN 1789, PG 111.

*****S

SECTION 8: FIRST AID.

EYE CONTACT: Flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Call a physician immediately.

SKIN: Removing contaminated clothing and shoes.
Wash skin well with plenty of clean running water for at least 15 minutes.
If burns or irritation occurs, call a physician.

INHALATION: Remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Call a physician.

INGESTION: DO NOT induce vomiting.
Give plenty of milk or water to drink.
Call a physician.

Never give anything by mouth to an unconscious person.

*****S

SECTION 9: PREPARATION DATA.

PREPARED BY: INNOVATIVE MANUFACTURING INC

DATE: 8 January 2014

The information contained herein is based on data believed to be reliable by INNOVATIVE MANUFACTURING INC. It is true and accurate to the best of our knowledge, but is not intended to be all-inclusive. Users should consider this information as a supplement to other information gathered by them and must make their own determination of suitability and completeness to assure proper, safe use and disposal of these materials.