MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND COMPANY INFORMATION

Product Name: Obliterate
Product Use: Drain Opener
Product Code: 6290
Date of Issue: 02-10-12
Supplier: Evcor Solutions Inc.
Address: 530 Adelaide Street West
Site 6107
Toronto, Ontario . M5V 1T5
Telephone: (416) 409 7477
Emergency Phone: 613-996 6666 (CANUTEC)

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Name	%	C.A.S.#	LC/50, Route,Species	LD/50, Route,Species
o- Dichlorobenzene	5-10	95-50-1	10000 mg/kg Dermal, Rabbit 840 mg/kg Intraperitoneal, Rat	500 mg/kg Oral, Rat 4386 mg/kg Oral, Mouse 500 mg/kg Oral, Rabbit
Sulphuric Acid	60-100	7664-93-9	Oral LD50 (Rat) 2140 mg/kg Inhalation LC50 (Rat) 510 mg/m_3 (2-hour exposure) LC50 (Rat): 255 mg/m_3 (equivalent 4-hour exposure) LC50 (Mouse): 160 mg/m_3 (equivalent 4-hour exposure).	

SECTION 3 – HAZARDS IDENTIFICATION

Emergency overview: Danger! Extremely corrosive material. Causes severe burns and eye damage.
Avoid contact with eyes and skin. Wear suitable protective clothing.
Avoid breathing vapour or mist. Do not ingest. Rinse after handling.

Route of Entry: Eye contact, Skin contact, Inhalation, Ingestion
EFFECTS OF ACUTE EXPOSURE:
Eye: Contact can cause burns, severe corneal damage and permanent loss of vision.
Skin: Contact can cause redness, burns, pain and blistering. Causes burns, and brownish or yellow stains. Concentrated solutions may cause second or third degree burns with severe necrosis and may cause permanent scarring. Prolonged and repeated exposure to dilute solutions often causes irritation, redness, pain and drying and cracking of the skin.
Inhalation: Mist can be extremely irritating and/or corrosive to the eyes, nose, throat and lungs.
Ingestion: Harmful or fatal if swallowed. Causes burns to the mouth, throat and stomach.

Effects of chronic exposure: Repeated exposures to high levels of sulfuric acid mist may cause etching or erosion of teeth. Skin irritation may be aggravated in individuals with existing skin lesions.

SECTION 4 – FIRST AID MEASURES

Eye: Immediately flush with water for 20 minutes. Seek immediate medical attention.
Skin: Flush affected skin with gently flowing water for 20-60 minutes and remove contaminated clothing while rinsing. Seek medical attention if irritation develops and persists. Remove contaminated clothing and launder before reuse. Obtain medical attention immediately.
Inhalation: Remove to fresh air and take deep, slow breaths. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomitus. Give two or more glasses of water to dilute if victim is alert.Do not give anything by mouth if victim is unconscious. Seek immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: (deg C, TCC): None
Upper Flammable Limits: Not applicable
Lower Flammable Limits: Not applicable
Auto Ignition Temperature (°C): Not available
Special Exposure Hazards: Strong dehydrating agent, which may cause ignition of finely divided combustible materials on contact. Reacts violently with water with the evolution of heat. It can react explosively with organic materials. Reacts with metals to generate flammable hydrogen gas. Reacts violently with water with the evolution of heat. It can react explosively with organic materials.
Hazardous Combustion Products (under fire conditions): Oxides of sulphur.
Fire fighting media and instructions: This product is a nonflammable substance. Use extinguishing media that is appropriate for surrounding fire.
Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Risk of explosion of the product in the presence of mechanical impact: Not available.
Risk of explosion of the product in the presence of static discharge: Not available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate personal protective equipment as specified in Section 8.
Environmental Precautions and Clean Up Procedures: Before attempting clean up, refer to hazard data given above. Ventilate area of leak or spill Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Rinse with water to clean up residue and reduce possible slippery floor hazard.

SECTION 7 – HANDLING AND STORAGE

Handling: Use appropriate measures when handling product. Handle and open containers with care. Use extreme care when diluting with water. ALWAYS ADD ACID TO WATER. Use with adequate ventilation.
Storage: Keep out of reach of children. Store in closed containers only. Store away from incompatible materials. Store in a cool, dry well-ventilated area not to exceed 50°C.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: General ventilation normally adequate to control airborne levels.

Personal Protection: The selection of personal protective equipment varies, depending upon conditions of use.
Eye Protection: Where direct eye contact may be a problem, use chemical splash goggles to avoid possible contact.
Hand Protection: If prolonged/repeated contact occurs, use impervious (latex rubber) protective gloves.
Skin Protection: Wear suitable protective clothing. Use impervious (latex rubber) protective gloves.
Respiratory Protection: Not normally required if good ventilation is maintained. Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Name	Exposure Limit - ACGIH
Sulphuric Acid	2 mg/m3 TLV
O-Dichlorobenzene	25 ppm; Ceiling limit 50 ppm ACGIH TWA

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour: Clear colourless to amber, aromatic odour.
Boiling Point: (deg.): Not available.
Specific Gravity: ((H2O =1)): 1.80
Vapour Pressure: (mmHg): 0Not available.
Freezing/ Melting point: -29.5ºC
Vapour Density (AIR=1): 3.4 Sulphuric acid component.
Evaporation Rate (Water=1): Similar.
Solubility in water: Acid content soluble.
pH (as supplied): 1% solution @25°C 0.3
Odour threshold: Not available.
Physical State: Liquid, Biphasic.
Viscosity: Not available.

SECTION 10 – STABILITY AND REACTIVITY

Stability: The product is stable. Under normal conditions.
Conditions to avoid: reacts violently with water and organic materials with evolution of heat. under fire conditions decomposes to form sulphur dioxide, sulphur trioxide, sulphuric acid vapours and hydrogen gas.
incompatible materials: Contact with organic materials, metals and combustible materials. Add acid to water. Do not add water to acid.
Hazardous Decomposition Products: Thermal decomposition may yield toxic fumes. Oxides of carbon.

SECTION 11 – TOXICOLOGICAL INFORMATION

Irritancy of Material: See Section 3 for Potential Health Effects.

Reproductive Effects: No Data Available.
Carcinogenic effects: (**Comment)** WHO and IARC have concluded that occupation exposure to strong inorganic acid Mists containing sulfuric acid is carcinogenic (contained in strong inorganic acid mists) to man, (Group 1) causing cancer of the larynx and, to a lesser extent, the lung.

Teratogenic effects, Mutagenic effects, Reproductive Effects, Sensitization effects: No data available.
Synergistic materials: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicological Information: Sulphuric Acid

Ecotoxicity - Fish Species Data: LC50 (Brachydanio rerio) 500 mg/L.
LC50 (Oncorhynchus mykiss) 2.8 ug/L (96hr)
Environmental Fate: There is no test data on this product.
Other Information: Harmful to aquatic life at low concentrations.

Environmental Toxicity:
For o-Dichlorobenzene:
96 Hr EC50 Selenastrum capricornutum: 91.6 mg/L;
96 Hr LC50 Pimephales promelas: 9.47 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 5.8 mg/L [static];
96 Hr LC50 Brachydanio rerio: 5.2 mg/L [flow-through];
96 Hr LC50 Lepomis macrochirus: 5.6 mg/L [static];
24 Hr EC50 Daphnia magna: 1.7 mg/L

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Waste must be disposed of in accordance with Local, Provincial and Federal Regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION:

TDG Proper Shipping Name:	SULPHURIC ACID
Class	8
UN Number:	1830
Packing Group:	II
Note:	See shipping/receiving documents for specific transportation information.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: Class E - Corrosive Material.
Class D-Division 1A: Material Causing Immediate and Serious Toxic Effects (Very Toxic I).
Class B-Division 3: Combustible Liquids.
Class D - Division 2B: Material causing other toxic effects (Toxic).

Canadian Domestic Substance List (DSL): All the ingredients are listed.
Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required

SECTION 16 – OTHER INFORMATION

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Prepared by: Technical department
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