

GraphLine Inc.[®]

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MATERIAL SAFETY DATA SHEET

IN CASE OF TRANSPORTATION EMERGENCY (Spill, Leak, Fire, Exposure, Accident)
Call CHEMTREC 1-800-424-9300 (24 Hour)

SECTION 1: IDENTIFICATION

Name: ETCH SOLUTION, SLM-OH III

Revision 8/28/2004

Product Number 6018610004

Size 6 X 1 QT.

Formula: AQUEOUS MIXTURE

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	INGREDIENTS	%
110-98-5	DIPROPYLENE GLYCOL	1-5
112926-00-8	SILICA (AMORPHOUS) FUME	<1 0
13472-35-0	SODIUM DIHYDROGEN PHOSPHATE	1-5
7732-18-5	WATER	85- 90

EXPOSURE LIMITS	OSHA		ACGIH		CANADA	
	TWA	STEL	TWA	STEL	TWA	STEL
DIPROPYLENE GLYCOL						
SILICA (AMORPHOUS) FUME	50 mg/m3	None	48 mg/m3	None	48 mg/m3	96 mg/m3
SODIUM DIHYDROGEN PHOSPHATE	None	None	None	None	None	None
WATER	None	None	None	None	None	None

Source of Exposure Limit Data:

OSHA: Occupational Safety and Health Administration

ACGIH: American Conference of Governmental Industrial Hygienists

CANADA: Province of Alberta's Occupational and Health and Safety Act.

ADDITIONAL EXPOSURE INFORMATION

CAS. NUMBER	SKIN DESIGNATION *			CARCINOGENS			PRIMARY HAZARD	IDLH (ppm)
	OSHA	ACGIH	CANADA	IARC	NTP	OSHA		
110-98-5	No	No	No					
112926-00-8	Yes	Yes	Yes	No	No	No	Not classified	500
13472-35-0	No	No	No	No	No	No		Unknown
7732-18-5	No	No	No	No	No	No	Not classified	None

* For substances designated as a 'Skin' hazard, protective measures are recommended to prevent or reduce skin absorption. These measures may include the use of gloves, aprons, goggles or other equipment, as well as engineering controls or work practices.

SECTION 3: HAZARDS IDENTIFICATION

EYES CONTACT:

Eye discomfort with possible transient conjunctivitis. Serious corneal injury not anticipated. Minor irritation also possible.

SKIN CONTACT:

No adverse effects from available information either through contact or absorption.

INHALATION:

Mist may irritate the nose and throat. High vapor concentrations caused by heating in a poorly ventilated area may produce nausea, vomiting, headache and dizziness.

INGESTION:

May cause abdominal discomfort, dizziness, nausea, lumbar pain, oliguria, malaise and central nervous system depression.

H.M.I.S. CODES:**HEALTH:****FIRE:****REACTIVITY:****PROTECTION:****SECTION 4: FIRST AID MEASURES****EYE CONTACT:**

Flush the eyes thoroughly with water. Obtain medical attention.

SKIN CONTACT:

Remove contaminated clothing and flush the exposed area with soap and water.

INHALATION:

Remove to fresh air. If discomfort persists contact a physician.

INGESTION:

If conscious, give 2 glasses of water. DO NOT induce vomiting. Obtain prompt medical attention.

SECTION 5: FIRE FIGHTING MEASURES**Flash point (F) :** NONE**FLAMMABILITY LEL-****UEL-****Extinguishing media:** Carbon dioxide, Dry chemical, Water spray.**Special fire fighting procedures :**

Evacuate personnel to a safe area. Firefighters should wear self-contained breathing apparatus.

Unusual fire and explosion hazards :

Product susceptible to flash at elevated temperature.

NATIONAL FIRE PROTECTION ASSOC. CODES**HEALTH:** 1**FIRE:** 0**REACTIVITY:** 0**SPECIAL:** NO**SECTION 6: ACCIDENTAL RELEASE MEASURES****SPILL RESPONSE:**

Use appropriate protective equipment. Dike the spill and soak up with absorbent material. Prevent liquid from entering sewers or waterways. Dispose of in accordance with Federal, State and Local Regulations.

SECTION 7: HANDLING AND STORAGE

Store in a well ventilated area. Keep container tightly capped when not in use. DO NOT store food, drink or tobacco in areas where contamination could occur with this product. Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Air-borne concentrations of applicable components should not exceed the PEL or TLV for applicable chemicals listed in section II. PROTECTIVE EQUIPMENT RECOMMENDED: Chemical splash goggles, latex or neoprene gloves, lab coat and eye wash station. For poorly ventilated areas a NIOSH cartridge respirator is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Boiling point (C) :** >100**Melting point:** N/A**Percent volatile by volume :** AS WAT**Evaporation rate:** N/A**Specific gravity (water = 1) :** 1.01**Appearance :** Clear,colorless solution.**Volatile Organic Compounds:** 3.65 lbs./gallon**Vapor pressure:** SIMILAR TO WAT**Vapor density:** SIMILAR TO WAT**Solubility in water:** Complete**pH:** 6.0**Odor:** Odorless

