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# GraphLine Inc.

1100 International Pkwy. Suite 100 Sunrise FL 33323 800-998-3200

# **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

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u> </u>
110-98-5	DIPROPYLENE GLYCOL	1-5
112926-00-8	SILICA (AMORPHOUS) FUME	<10
13472-35-0	SODIUM DIHYDROGEN PHOSPHATE	1- 5
7732-18-5	WATER	85- 90

EXPOSURE LIMITS	OSH	OSHA		ACGIH		CANADA	
	<u>TWA</u>	STEL	<u>TWA</u>	STEL	<u>TWA</u>	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**

	SK	SKIN DESIGNATION *			RCINOGE	NS		
CAS. NUMBER	<u>OSHA</u>	<b>ACGIH</b>	<b>CANADA</b>	<b>IARC</b>	<u>NTP</u>	<u>OSHA</u>	<b>PRIMARY HAZARD</b>	IDLH (ppm)
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

<sup>\*</sup> For substances designated as a 'Skin' hazard, protective measures are recommended to prevent or reduce skin absorbtion. 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 absorbtion.

# 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.

INOCOTION

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#### 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 susceptable 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 RECCOMENDED: Chemical splash goggles, latex or neoprene gloves, lab coat and eye wash station. For poorly ventilated areas a NIOSH cartridge respirator is reccomended.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling point (C):** >100 **Volatile Organic Compounds:** 3.65 lbs./gallon

Melting point: N/A Vapor pressure: SIMILAR TO WAT

Percent volatile by volume : AS WAT Vapor density: SIMILAR TO WAT Evaporation rate: N/A Solubility in water: Complete

Specific gravity (water = 1): 1.01 pH: 6.0

Appearance: Clear, colorless solution. Odor: Odorless

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#### SECTION 10: STABILITY AND REACTIVITY

Stability: Stable Hazardous polymerization: Will not occur

Incompatibility (materials to avoid): None

**Hazardous decomposition products:** Combustion will produce NO2 gases.

# **SECTION 11: DISPOSAL CONSIDERATIONS**

DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

# **SECTION 12: TRANSPORTATION INFORMATION**

SHIPPING NAME: NOT REGULATED MATERIAL

UN ID-#: N/A

MAJOR CLASS: N/A

MINOR CLASS: N/A

PACKING GROUP: N/A

PRIMARY LABEL: N/A

SECONDARY LABEL: N/A

REMARKS: NOT REGULATED MATERIAL

# **SECTION 13: REGULATORY INFORMATION**

CAS. NUMBER	<b>CERCLA</b>	SARA-EHS	<b>SARA-313</b>	RCRA	CAL-PROP 65	<u>N.J.</u>	FLA.
110-98-5	No	No	No	No	No	No	Yes
112926-00-8	No	No	No	No	No	No	No
13472-35-0	No	No	No	No	No	No	No
7732-18-5	No	No	No	No	No	No	No

<sup>\*</sup> Specific CAS Number references from these regulatory tables:

CERCLA: 40 CFR. Table 302.4

SARA-EHS: 40 CFR. 355 Appendices A B SARA-313: 40 CFR. section 372.65 RCRA: 40 CFR. section 261.3

CAL-PROP 65: California Proposition 65, Developmental and Reproductiv

New Jersey Right to Know Florida Right to Know

# **SECTION 14: OTHER INFORMATION**

Comments: None

The data in this Material Safety Data form relates to the specific material designated herein and to the standard use of same in combination with other materials or processes. The hazards covered are beleived to be those most likely to occur in the reasonable, contemplated, or ordinary use of these chemicals. No warranty is made or implied in respect of other hazards which may occur as a result of unreasonable, abnormal, or unusual usage, or non-standard application of these materials. The information accumulated herein is beleived to be accurate, but GraphLine Inc. expressly denies any warranty to such effect. Customers or recipients are advised to confirm, in advance that the information is current, applicable and suitable to their circumstances. This information is furnished as a service only.

<sup>\*</sup> Reference: CFR 49, Table 172.102 (highway)