

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: SILVERPLATE ETCH

Revision 12/17/2003

Product Number 6018622001

Size 1 QT.

Formula: Aqueous Solution

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
110-98-5	DIPROPYLENE GLYCOL	1-5
7558-80-7	MONOSODIUM PHOSPHATE	1-5
7732-18-5	Water	90-98

<u>EXPOSURE LIMITS</u>	<u>OSHA</u>		<u>ACGIH</u>		<u>CANADA</u>	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
DIPROPYLENE GLYCOL	N/A	N/A	N/A	N/A	N/E	N/E
MONOSODIUM PHOSPHATE	N/E	N/E	N/E	N/E	N/E	N/E
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

<u>CAS. NUMBER</u>	<u>SKIN DESIGNATION *</u>			<u>CARCINOGENS</u>			<u>PRIMARY HAZARD</u>	<u>IDLH (ppm)</u>
	<u>OSHA</u>	<u>ACGIH</u>	<u>CANADA</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>		
110-98-5	No	No	No	No	No	No	Not classified	None
7558-80-7	No	No	No	No	No	No	Not classified	None
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:

May cause eye irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Prolonged or repeated contact with aqueous solutions may cause irritation and or allergic reaction.

INHALATION:

Normally not a problem, but inhalation of mist could cause respiratory irritation.

INGESTION:

Ingestion of liquid may cause irritation of mucous membrane and digestive tract.

H.M.I.S. CODES: HEALTH: 3 FIRE: 0 REACTIVITY: 0 PROTECTION: D

SECTION 4: FIRST AID MEASURES**EYE CONTACT:**

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately.(preferably an ophthalmologist)

SKIN CONTACT:

Rinse with copious amounts of water and/or wash with soap and water for at least 15 minutes. If irritation occurs, contact physician.

INHALATION:

Remove victims to fresh air, if not breathing, have certified person administer CPR. Contact physician immediately.

INGESTION:

Administer 2-4 glasses water. Induce vomiting. Contact physician or poison control center immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash point (F) : 77F **FLAMMABILITY LEL- NON UEL- N/A**

Extinguishing media: Any applicable to primary cause of fire.

Special fire fighting procedures :

Self contained breathing apparatus with full face shield and protective clothing should be worn in fighting fires involving chemicals.

Unusual fire and explosion hazards :

Keep fire exposed drums cool with a constant stream of water.

NATIONAL FIRE PROTECTION ASSOC. CODES

HEALTH: 1 **FIRE:** 2 **REACTIVITY:** 0 **SPECIAL:** None

SECTION 6: ACCIDENTAL RELEASE MEASURES**SPILL RESPONSE:**

Dike spill and soak up with sand or a commercially available spill kit, sweep up absorbant and place in suitable container for disposal. Wash area with a suitable cleaner and rinse.

SECTION 7: HANDLING AND STORAGE

For Industrial Use Only. Store in well ventilated area. Keep container closed when not in use. Remove and wash contaminated clothing immediately. Do not store food, drink, or tobacco in area where they may become contaminated with this material. Store above 32 deg. F.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not needed for recommended handling.

VENTILATION: local exhaust recommended: MECHANICAL (General): Should be sufficient.

SKIN PROTECTION: Latex, Rubber or Neoprene Waterproof gloves and apron may be worn.

EYES PROTECTION: Safety glasses with side shields or goggles may be worn.

OTHER PROTECTION EQUIPMENT: Rubber or plastic apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (F) : >212

Melting point: N/A

Percent volatile by volume : 94

Evaporation rate: N/A

Specific gravity (water = 1) : 1.01

Appearance : Clear and Colorless

Volatile Organic Compounds: N/A

Vapor pressure: 17.5

Vapor density: Similar to water

Solubility in water: Complete

pH: 6.1

Odor: Strong alcohol odor

SECTION 10: STABILITY AND REACTIVITY

