

# GraphLine Inc.<sup>®</sup>

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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: BIOSAFE ETCH

Revision 6/23/2004

Product Number 3140450202

Size 4 X 1 GAL.

Formula: Aqueous Mixture

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
124-04-9	ADIPIC ACID	2- 10
141-82-2	MALONIC ACID	1- 5
497-19-8	SODIUM CARBONATE	1- 5
532-32-1	SODIUM BENZOATE	1- 5
7732-18-5	WATER	25- 60

<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>
ADIPIC ACID						
MALONIC ACID						
SODIUM CARBONATE	None	None	None	None	None	None
SODIUM BENZOATE	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

<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>		
124-04-9	No	No	No					
141-82-2	No	No	No					
497-19-8	No	No	No	No	No	No	Not classified	None
532-32-1	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:

May cause irritation and burning.

#### SKIN CONTACT:

Prolonged or repeated skin contact may cause skin irritation and may cause an allergic skin reaction.

#### INHALATION:

May cause irritation to nasal mucous membranes and respiratory tract.

**INGESTION:**

May cause irritation or corrosion to digestive tract.

**H.M.I.S. CODES:** HEALTH: 1 FIRE: 0 REACTIVITY: 0 PROTECTION: B

**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 milk or water. Induce vomiting and contact physician or poison control center immediately.

**SECTION 5: FIRE FIGHTING MEASURES**

Flash point (F) : None FLAMMABILITY LEL- N/A UEL- N/A

Extinguishing media: Any applicable to primary cause of fire.

**Special fire fighting procedures :**

Wear NIOSH approved self contained breathing apparatus when entering building.

**Unusual fire and explosion hazards :**

Fire or excessive heat may cause hazardous decomposition products.

**NATIONAL FIRE PROTECTION ASSOC. CODES**

HEALTH: 1 FIRE: 0 REACTIVITY: 0 SPECIAL: NONE

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

Dike spill and soak up with sand or a commercially available acid spill kit. Sweep up absorbent and place in a hazardous waste container.

**SECTION 7: HANDLING AND STORAGE**

Store in well ventilated area. Keep container tightly closed. Remove and wash contaminated clothing immediately. Do not store near heat. Do not store food, drink, or tobacco in area where they may become contaminated with this material.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

RESPIRATORY PROTECTION: N/A - LOCAL EXHAUST: Recommended - SPECIAL: N/A. - MECHANICAL: N/A. - OTHER: N/A. - PROTECTIVE GLOVES: Latex , Rubber or neoprene waterproof gloves. EYE PROTECTION: Chemical safety goggles/splash shield. OTHER PROTECTIVE EQUIPMENT: Rubber or plastic apron

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling point (F) :** 212  
**Melting point:** N/A  
**Percent volatile by volume :** N/D  
**Evaporation rate:** 86.2 (N-Butyl Acetate=1)  
**Specific gravity (water = 1) :** 1.04  
**Appearance :** Faint tan color

**Volatile Organic Compounds:** 0.83 lb/gal  
**Vapor pressure:** .023 [mm/Hg]  
**Vapor density:** 1 [air=1]  
**Solubility in water:** COMPLETE  
**pH:** 4.4  
**Odor:** Glycol ether odor

### **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable  
**Hazardous polymerization:** Will not occur  
**Incompatibility (materials to avoid):** NONE  
**Hazardous decomposition products:** NONE

### **SECTION 11: DISPOSAL CONSIDERATIONS**

Remove free liquid and dispose of in accordance with Federal, State, and local regulations.

### **SECTION 12: TRANSPORTATION INFORMATION**

SHIPPING NAME: NOT REGULATED MATERIAL

UN ID-#: N/A

PACKING GROUP: N/A

MAJOR CLASS: N/A

PRIMARY LABEL: N/A

MINOR CLASS: N/A

SECONDARY LABEL: N/A

REMARKS: NOT REGULATED MATERIAL

\* Reference: CFR 49, Table 172.102 (highway)

### **SECTION 13: REGULATORY INFORMATION**

<u>CAS. NUMBER</u>	<u>CERCLA</u>	<u>SARA-EHS</u>	<u>SARA-313</u>	<u>RCRA</u>	<u>CAL-PROP 65</u>	<u>N.J.</u>	<u>FLA.</u>
124-04-9	No	No	No	No	No	No	No
141-82-2	No	No	No	No	No	No	Yes
497-19-8	No	No	No	No	No	No	No
532-32-1	No	No	No	No	No	No	No
7732-18-5	No	No	No	No	No	No	No

\* 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 believed 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 believed 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.