

Material Safety Data Sheet

Issued: 11/18/2010

Revision Number: 10

1. Identification of Substance /Preparation and Company /Undertaking

Product Name: ALL-ETCH/ UNI-ETCH/ ETCH-37 (with/without BAC)
Manufacturer: Bisco, Inc. 1100 W Irving Park Road, Schaumburg, IL 60193 USA
Telephone: 1-847-534-6000, during normal business hours

Emergency CHEMTREC - 24-Hour Hazmat Emergency Communications Center
Telephone Number: Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

EC Representative: Bisco France, 120, allée de la Coudoulette, 13680 Lançon de Provence, France
Telephone: 33-4-90-42-92-92

2. Composition/Information on Ingredients

Ingredient	Concentration Range (%)	CAS Number	Symbol/Risk Classificaton	OSHA PEL (mg/m3)	ACGIH (mg/m3)	LD50 (mg/kg, rat/oral)
ALL-ETCH: Phosphoric Acid.	>10.	7664-38-2.	Xi; R36/38.	1.	1.	1530.
UNI-ETCH: Phosphoric Acid.	>25.	7664-38-2.	C; R34.	1.	1.	1530.
ETCH-37: Phosphoric Acid..	>25..	7664-38-2..	C; R34..	1..	1..	1530..
Benzalkonium Chloride (BAC)*. * only for those marked with BAC	< 1.	8001-54-5.	Xi; R36/38.	N/D.	N/D.	240.

3. Hazards Identification

ALL-ETCH: Irritant; Irritating to eyes and skin UNI-ETCH/ETCH-37: Corrosive; Cause burns.

4. First-aid Measures

Inhalation: Provide fresh air and rest. Get medical attention.
Skin Contact: Wash with soap and water.
Eye Contact: Flush with running water for at least 15 minutes while keeping eye lids open; seek medical attention.
Ingestion: Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested. Do not induce vomiting.

5. Fire-fighting Measures

Fire-fighting media: Dry chemical powder, foam or carbon dioxide.
Fire and explosion risks: Upon combustion, irritating gases may form.

6. Accidental Release Measures

Personal Precautions: Prevent skin/eye contact.
Environmental Precautions: Avoid ground water contamination.
Methods for Cleaning Up: Wipe with damp paper towel. Discard properly.

7. Handling and Storage

Use according to directions for use. Store at (20°C/68°F - 25°C/77°F) in the original container provided by the manufacturer. Avoid skin contact. At high temperatures toxic fumes of phosphoric acid and phosphorous oxides can be generated.

8. Exposure Controls / Personal Protection

Eye Protection: Use protective eyewear.

Hand Protection: Use protective gloves.

Respiratory Protection: Avoid prolonged breathing of vapors.

Skin Protection: Use any measures to avoid skin contact.

9. Physical / Chemical Properties

Appearance	Semi-gel	Vapor Pressure @ 20C/68F	N/A
Color	w/BAC: Blue, w/o BAC: Green	Miscibility	N/A
Odor	Odorless	Vapor Density	N/A
Solubility (H2O, fat)	Miscible	pH	<1
Boiling Point / Range	>100C/212F	Evaporation Rate	N/A
Melting Point / Range	<0C/32F	Viscosity	N/A
Flash Point	N/A	Partition Coefficient	N/A
Conductivity	N/A	Autoflammability	N/A
Explosive Properties	N/A	Flammability	N/A
Oxidizing Properties	N/A	Relative Density	N/A

10. Stability and Reactivity

Stable. Avoid high temperatures. Incompatible with strong caustics, metals, sulfides and sulfites.

11. Toxicological Information

Eye Contact: Cause burns.

Skin Contact: Cause burns.

Sensitization: May cause allergic reaction on contact with the skin.

Other: If swallowed, may cause sore throat and burns of the mouth and throat. Prolonged exposure may cause burns to the respiratory tract, contact with soft tissue may cause burns.

12. Ecological Information

There is no specific information on the product. Use according to good working practices, avoiding release of the product into environment.

13. Disposal Considerations

Refer to any Community provisions relating to waste. In their absence, refer to National or Regional provisions relating to waste.

14. Transport Information

No special precautions.

15. Regulatory Information

Classification: Xi Irritant, C Corrosive, R34 Causes burns, R36 Irritating to eyes, R38 Irritating to skin.

Safety: S1/2 Keep locked up and out of the reach of children. S26 In case of contact with eyes rinse immediately with water and seek medical advice. S45 In case of accident or if you feel unwell seek medical advice immediately (show label where possible).

16. Other Information

Revision Date: 11/18/2010 Replaces MSDS dated: 03/23/2009
 Revision Number: 10 Product: ALL-ETCH/ UNI-ETCH/ ETCH-37 (with/without BAC)

This information is believed to be correct as of the date of this MSDS. The manufacturer makes no representation as to the completeness or accuracy of this information and supplies it on the condition that the person receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

NOTE: CHEMTREC provides an emergency telephone number in the event of an emergency for leak, fire, exposure or accident involving the hazardous material that is being shipped. All non-emergency inquiries should be directed to Bisco during normal working hours.