

43331-1024

**Z \* A C R Y L**  
**ETCHING SYSTEMS**

**MATERIAL SAFETY DATA**

**SECTION I--PRODUCT IDENTIFICATION**

Product Name:

**Z\*ACRYL HARDGROUND EMULSION**

Product Code:

**HGE 02401**Chemical or Common Name:  
**NA**Date Issued:  
**10/15/99**Prepared By:  
**Duke Univ. Medical Center**

**SECTION II--HAZARD RATING**

**4=VERY HIGH    3=HIGH    2=MODERATE    1=VERY SLIGHT    0=INSIGNIFICANT**

HMIS	
<b>HEALTH</b>	<b>=0</b>
<b>FLAMMABILITY</b>	<b>=0</b>
<b>REACTIVITY</b>	<b>=0</b>

**SECTION III--INGREDIENT INFORMATION**

Ingredients:	Weight by %	Exposure Limit:
<b>Styrene Acrylic Polymers (CAS# NA--Non Hazardous)</b>	<b>18 - 27 %</b>	<b>NONE</b>
<b>Ammonium Hydroxide</b>	<b>3 - 7</b>	<b>50 ppm, OSHA</b>
<b>Tributoxyethyl Phosphate</b>	<b>&lt;1 - 1.5</b>	<b>NONE</b>
<b>Natural Pigments</b>	<b>1</b>	<b>NONE</b>
<b>Water</b>	<b>Balance</b>	<b>NONE</b>

**SECTION III--INGREDIENT INFORMATION**

Appearance/Odor:	<b>Blue translucent liquid with monomeric odor.</b>	Specific Gravity (w/ H <sub>2</sub> O=1.0):	<b>1.034</b>
Vapor Pressure (mm Hg):	<b>Same as Water</b>	Vapor Density:	<b>Same As Water</b>
Solubility in Water:	<b>Dispersible, (Near Complete)</b>	Boiling Point:	<b>Approx. 212°F</b>
Freezing Point:	<b>Approx. 32°F</b>	Evaporation Rate:	<b>NO DATA</b>
pH:	<b>8.2-8.6</b>	Theoretical VOC:	<b>Not Applicable</b>
VOC:	<b>Not Applicable</b>	% Volatility By Volume:	<b>NA</b>

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Material Safety Data Sheet--Z\*ACRYL HARDGROUND EMULSION. cont.

#### SECTION V--FIRE AND EXPLOSION INFORMATION

Flash Point (F):	<b>NOT APPLICABLE</b>
Flammable Limits:	<b>NOT APPLICABLE</b>
Extinguishing Media:	<b>FOAM; DRY CHEM.; CO<sub>2</sub>; WATER FOG.</b>
Special Firefighting Procedures:	<b>NORMAL PROCEDURES MAY BE USED.</b>
Unusual Fire/Explosion Hazards:	<b>CONTAINER MAY MELT &amp; LEAK IN FIRE.</b>

#### SECTION VI--HEALTH AND HAZARD DATA

Primary Route of Entry:	<b>EYE AND SKIN CONTACT.</b>
Signs and Symptoms:	<b>DIRECT CONTACT WITH EYES CAN CAUSE IRRITATION. CONTACT WITH SKIN WILL LEAVE EVIDENCE OF BLUE PIGMENT. UNLIKELY TO CAUSE SKIN IRRITATION.</b>
Extinguishing Media:	<b>REMOVE PRODUCT FROM SKIN WITH SOAP AND WATER. FLUSH EYES WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL AID.</b>
Medical Conditions Recognized as Aggravated by Exposure:	<b>NONE KNOWN.</b>

#### SECTION VII--REACTIVITY DATA

Stability:	<b>STABILE</b>
Stability Conditions to Avoid:	<b>NONE KNOWN.</b>
Incompatibility:	<b>NONE KNOWN.</b>
Hazardous Decomposition Products:	<b>WHEN EXPOSED TO FIRE, PRODUCES NORMAL PRODUCTS OF COMBUSTION.</b>
Hazardous Polymerization:	<b>WILL NOT OCCUR.</b>
Hazardous Polymerization Conditions to Avoid:	<b>NOT APPLICABLE.</b>

#### SECTION VIII--SPILL OR LEAK PROCEDURES

Steps to be taken in the event of spill:	<b>RINSE EFFECTED AREA THOROUGHLY WITH A WEAK AMMONIA:WATER SOLUTION.</b>
Waste Disposal Information:	<b>NO SPECIAL METHOD REQUIRED. OBSERVE ALL APPLICABLE FED/STATE REGULATIONS &amp; LOCAL ORDINANCES REGARDING DISPOSAL OF NON-HAZARDOUS MATERIAL</b>

Material Safety Data Sheet--Z\*ACRYL HARDGROUND EMULSION, cont.

#### SECTION IX--SPECIAL PROTECTION INFORMATION

Respiratory Protection:	<b>NO SPECIAL REQUIREMENTS UNDER NORMAL USE.</b>
Ventilation:	<b>GENERAL ROOM VENTILATION IS ADEQUATE.</b>
Protective Gloves:	<b>RECOMMENDED DURING PROLONGED OR REPEATED CONTACT.</b> <b>ANY IMPERVIOUS MATERIAL.</b>
Eye Protection:	<b>NO SPECIAL REQUIREMENTS UNDER NORMAL USE.</b>
Unusual Fire/Explosion Hazards:	<b>USE GOOD PERSONAL HYGIENE PRACTICES.</b> <b>WHERE GROSS EYE/SKIN CONTACT MAY BE POSSIBLE, WEAR OR USE APPROPRIATE PROTECTIVE EQUIPMENT.</b>

#### SECTION X--SPECIAL PRECAUTIONS

Precautionary instructions:	<b>(Recommended) CAUTION: AVOID CONTACT WITH EYES. IF SUCH CONTACT OCCURS, FLUSH EYES WITH WATER.</b>
Handling and Storage Conditions:	<b>WASH (w/SOAP AND WATER)AFTER HANDLING</b> <b>KEEP OUT OF REACH OF CHILDREN.</b>

#### SECTION XI--TRANSPORTATION INFORMATION

DOT Class:	<b>NOT REGULATED.</b>
DOT #	<b>NOT APPLICABLE.</b>
Shipping Name:	<b>ACRYLIC RESIST COMPOUNDS, LIQUID.</b>
DOT Notes:	<b>NONE.</b>

#### SECTION XII--TRANSPORTATION INFORMATION

**THERE ARE NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65.**

#### LEGEND:

NA = Not Applicable.      NE = Not Established.      NSR = No Special Requirements.  
ND = Not Determined For This Product.

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