



SAFETY DATA SHEET

SECTION 1. Identification

Trade Name: No. 392 SmartPlate® Etch
Chemical names, common names: Complex Water base Solution

Manufacturer's Name: HURST CHEMICAL COMPANY
Address: 2360 Eastman Avenue # 108, Oxnard, CA 93030
Product Information, Call: (800) 723-2004
FOR EMERGENCY, CALL CHEMTREC, 24 HOUR: (800) 424-9300
DOT CLASSIFICATION: (Not regulated)

Recommended Use: Pre-Wetting agent for all laser plates
Restrictions on Use: Not intended for any other use other than the recommended use of this product.
Persons handling and/or using this product should be trained regarding handling and use.

SECTION 2. Hazard(s) Identification

HMIS Health Hazard = 1
HAZARD Flammability = 1
CLASS Reactivity = 0

0 = Least	3 = High
1 = Slight	4 = Extreme
2 = Moderate	

Other Safety glasses, nitrile gloves
Flash Point °F: > 200
Flammable class: IIIB

Signal Word: Danger

Hazard Statement(s):

The product is not flammable. However vapors exposed to heat or open flame may separate and become flammable (then use dry chemical or foam to extinguish).

Unusual fire and explosion hazards: Not Known.

Ingestion of excessive amount may cause irritation of digestive tract, signs of nervous system depression, visual disturbances, kidney damage, convulsions, & coma. Maybe toxic if swallowed.

Chronic: Kidney damage & visual disturbances.

Harmful in contact with skin

Pictograms or hazard symbols:



Precautionary statement(s):

Wash affected areas thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep away from open flames/hot surfaces.

Mixture composition and information on ingredients are described in Section 3.

SECTION 3. Composition/ Information on Ingredients

<u>Listed Ingredients</u>	<u>CAS Number</u>	<u>Weight % Range</u>
2-Butoxyethanol	111-76-2	0.5-2.0
Ethylene glycol	107-21-1	3.0-10
malonic acid	141-82-2	Not available
adipic acid	124-04-9	Not available

SECTION 4. First-Aid Measures**SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE**

Inhaled: Breathing high concentrations of vapors or mists may cause irritation of nose, or mild drowsiness.

Contact with skin or eyes: This material may cause skin and eye irritation.

Swallowed: May cause gastric discomfort.

HEALTH EFFECTS OR RISKS FROM EXPOSURE

Acute: May cause eye, skin & digestive track irritation.

Chronic: N/A

EMERGENCY PROCEDURES

Eye Contact: For direct contact, hold eyelids apart and flush the affected eye (s) with clean water for 15 minutes, if irritation or redness develops, seek medical attention.

Skin Contact: Remove contaminated clothing, cleanse affected area (s) thoroughly by washing with mild soap & water. If irritation or redness develops, seek medical attention.

Inhaled: Move victim away from source of exposure and into fresh air. If symptoms appear seek medical attention. Swallowed: Seek immediate medical attention.

COMMENTS: This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA. Ethylene glycol in this product is a probable hazard to the fetus based on tests with laboratory animals. 2-Butoxyethanol has caused blood disorders resulting in liver, kidney and spleen disorders in long term studies in laboratory animals. Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain & nervous system damage, (Sometimes referred to as solvent or painter's syndrome). Intentional misuse by deliberately concentrating & inhaling this product may be harmful or fatal.

SECTION 5. Fire-fighting Measures

Flash Point °F: > 200

Fire extinguishing materials: Do not use water spray, carbon dioxide, foam or dry chemical.

Special firefighting procedures: The product is not flammable. However vapors exposed to heat or open flame may separate and become flammable. Then use Dry chemical or foam to extinguish.

Unusual fire and explosion hazard: Not known.

SECTION 6. Accidental Release Measures

Spill response procedures: For small spills, do not flush with water, use absorbent pads. Keep out of drains, sewers or waterways. Use sand or other inert material to dam and contain spill.

SECTION 7: Handling and Storage

Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8. Exposure Controls/ Personal Protection

<u>Chemical Names</u>	<u>CAS Number</u>	<u>Exposure Limits in Air</u>	
		<u>ACGIH (TWA)</u>	<u>OSHA (PEL)</u>
malonic acid	141-82-2	Not Established	
adipic acid	124-04-9	5 mg/M3	NA
2 butoxyethanol	111-76-2	25ppm (skin)	25ppm (skin)

Ventilation and engineering controls: Normal shop ventilation is adequate.

Respiratory Protection: In working atmosphere where TLV or PEL levels are exceeded, use NIOSH approved chemical cartridge respirator.

Eye Protection: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

Gloves: The use of nitrile gloves impermeable to the specific material handled is advised.

Other clothing and equipment: It is suggested that a source of clean water be available in work area for flushing eyes & skin. Impervious clothing should be worn as needed.

SECTION 9. Physical and Chemical Properties

- Appearance (physical state, color, etc.): Clear tan liquid.
- Upper/lower flammability or explosive limits: Flammable limits in air, volume%: lower: N/A -upper: N/A

- Odor: Information may not be relevant or is not available.
- Vapor pressure: Information may not be relevant or is not available.
- Odor threshold: Information may not be relevant or is not available.
- Vapor density: (air = 1): <1
- pH: Information may not be relevant or is not available.
- Relative density: Density lb/gal: 9.00
- Melting point/freezing point: Information may not be relevant or is not available.
- Solubility(ies): in water: 100%
- Specific Gravity: 1.08
- Initial boiling point and boiling range: N/A
- Flash point: °F: > 200
- Evaporation rate: (Bu Ac = 1): <1
- Flammability (solid, gas): Flammable class: IIIB
- Partition coefficient: n-octanol/water: Information may not be relevant or is not available.
- Auto-ignition temperature: Information may not be relevant or is not available.
- Decomposition temperature: Information may not be relevant or is not available.
- Viscosity: Information may not be relevant or is not available.
- Volatile Organic Content (VOC,EPA Method 24): 12 gm/l or 0.1 lb/gal
- VOC Composite Partial Pressure, mm Hg at 20°C: < 0.1

SECTION 10. Stability and Reactivity

Reactivity

Fire and Explosion: CLASS / Reactivity=0, 0=Least

Chemical stability

Stable under ordinary use & storage.

Other

Incompatibility (materials to avoid): Incompatible with strong oxidizing agents, anhydride, isocyanate, acetaldehyde, chlorine, ethylene oxide, hydrogen peroxide, aluminum and organometallic contaminants.

Unusual fire and explosion hazard: Not known.

Hazardous Decomposition products (including combustion products): Carbon monoxide/ or carbon dioxide.

Hazardous polymerization: Will not occur.

SECTION 11. Toxicological Information

Routes of exposure (inhalation, ingestion, skin and eye contact are discussed in Section 4. Description of the delayed, immediate, or chronic effects from short- and long-term exposure is discussed in Section 4. Description of the symptoms is discussed in Section 4.

No additional information is available or relevant.

SECTION 12. Ecological Information

Keep out of sewers, drainage areas, and waterways. Consult appropriate local, county, state, and federal agencies regarding ecological issues. Follow appropriate spill response measures as outlined in Section 6.

SECTION 13 Disposal Considerations

Preparing wastes for disposal: Dispose of product in accordance with local ordinance.

SECTION 14. Transport Information

Transport this product in accordance with local, county, state, and federal regulations.

SECTION 15. Regulatory Information

Section IIA -This product contains the following chemicals subject to reporting requirements of SARA 313 and 40 CFR 372.

<u>Listed Ingredients</u>	<u>CAS Number</u>	<u>Weight % Range</u>
2-Butoxyethanol	111-76-2	0.5-2.0
Ethylene glycol	107-21-1	3.0-10

This product contains the following chemicals subject to reporting requirements of Environment Canada's NDSL: None.

This product contains the following chemicals subject to reporting requirements of TSCA: 2-Butoxyethanol, Ethylene glycol

All chemicals are listed under Environment Canada's DSL.

SECTION 16. Other Information

Date Prepared: March 1999

Revised: May 2015

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