



HURST CHEMICAL COMPANY

Date Prepared: March 1998
Date Reviewed: March 2009

MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: SmartPlate Fountain Solution 390
Chemical names, common names: Complex Water Base Solution
Manufacturer's Name: HURST CHEMICAL COMPANY
Address: 231 W. Pedregosa St. , Santa Barbara, CA 93101
For Product Information, call: (800) 723-2004
FOR EMERGENCY, CALL CHEMTREC, 24 HOUR: (800) 424-9300
DOT CLASSIFICATION: (Not regulated)

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Number	Weight % Range	Exposure Limits in Air	
			ACGIH (TWA)	OSHA (PEL)
2-Butoxyethanol	111-76-2	8.0-10.0	25 ppm	25 ppm
Ethylene glycol	107-21-1	3.0- 5.0	50 ppm Ceil.	50 ppm Ceil
Water	7732-18-5		None	None
Propylene glycol	57-55-6		Not Established	Not Established

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

III. PHYSICAL PROPERTIES

Appearance and odor: Clear yellowish liquid.
Vapor density (air = 1): <1
Specific Gravity: 1.04
Density lb/gal: 8.73
Solubility in water: 100%
VOC Composite Partial Pressure, mm Hg at 20°C: < 0.5
Evaporation rate (Bu Ac = 1): <1
Boiling Range °F: 180-388
Volatile Organic Content (VOC,EPA Method 24): 103gm/l or 0.85 lb/gal

IV. FIRE AND EXPLOSION

HMIS	Health Hazard=1	0=Least	3=High
HAZARD	Flammability=1	1=Slight	4=Extreme
CLASS	Reactivity= 0	2=Moderate	
Other	Safety glasses, nitrile gloves.		

Flash Point °F: > 200
Flammable class: IIIB
Flammable limits in air, volume%: lower: N/A - upper: N/A
Fire extinguishing materials: Do not use water spray, carbon dioxide, foam or dry chemical. See special firefighting procedures below.
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.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE

Inhaled: This product has low degree of toxicity. Breathing high concentrations of vapors or mists may cause irritation of nose, throat and signs of nervous system depression.

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

Absorbed through skin: No data available of harmful effects through skin absorption.

Swallowed: Ingestion of excessive amount may cause irritation of digestive tract, signs of nervous system depression, Kidney damage, convulsions, coma.

HEALTH EFFECTS OR RISKS FROM EXPOSURE

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

Chronic: Kidney damage & visual disturbances.

FIRST AID: 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, do not induce vomiting.

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.

VI. REACTIVITY DATA

Stability: Stable under ordinary use & storage.

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

Hazardous Decomposition products (including combustion products): Carbon monoxide/ or carbon dioxide, oxides of nitrogen.

Hazardous polymerization: Will not occur.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

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

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

VIII. SPECIAL HANDLING INFORMATION

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.

OTHER HANDLING AND STORAGE REQUIREMENTS

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.

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