HURST *CHEMICAL COMPANY*

Date Prepared: November 1993
Revised: December 2008

MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Trade Name: Smart Plate Deletion Pen 1175
Chemical names, common names: Image deletion pen
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 Information: Flammable liquids, N.O.S. Hazard class 3.3 UN Number 1993
Packing Group: III IATA

II. HAZARDOUS INGREDIENTS

CAS	Chemical	ACGIH TLV (ppm)	OSHA PEL (ppm)	OSHA IDLH (ppm)	Oral Rat LD50 (mg/kg)	Weight Percent Range
5989-27-5	d-limonene	--	--	--	4400	10-20%
64-17-5	ethanol	1000, A4	1000	--	7060	10-50%
9002-92-0	polyoxyethylene monoauryl ether	--	--	--	1000	10-20%
9000-01-5	gum arabic solution	--	--	--	--	30-50%

- Ethanol is classified by IARC as carcinogenic to humans (Group 1).
- D-Limonene is listed as not classifiable as to carcinogenicity to humans (Group 3).

Section IIA -None of the ingredients listed above are listed in any of the following regulations:

302	Section 302 of the Emergency Planning and Community Right-to-Know Act (EPCRA)
304	Section 304 of the Emergency Planning and Community Right-to-Know Act (EPCRA)
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act ("SUPERFUND")
355	The List of Extremely Hazardous Substances Under SARA
313	Toxic Release Inventory (TRI) Reporting Under SARA
RCRA	Resource Conservation and Recovery Act
CAA212	Clean Air Act Section 212
CAA602	Clean Air Act Section 602
CWA	Clean Water Act
HAP	Hazardous Air Pollutant
Prop65	California Proposition 65

All ingredients are listed under the Toxic Substance Control Act (TSCA).

III. PHYSICAL PROPERTIES

Vapor density (air = 1): N/D
Specific Gravity: 0.84
Density lb/gal: 8.5
Solubility in water: miscible
Vapor Pressure: 0.4 kPa(14.4°C)
Evaporation rate (Bu Ac = 1): <1
Boiling Range °F: 175
Appearance and odor: Clear, colorless liquid with lemon-like odor.

IV. FIRE AND EXPLOSION

HMIS	Health Hazard = 1
HAZARD	Flammability = 2
CLASS	Reactivity = 0

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

Other= Safety glasses and gloves

Flash Point: 59°F

Flammable limits in air, volume%: lower ND upper ND

Flammable class: IB

Fire extinguishing materials: Use powder, alcohol-resistant foam, water in large amounts, carbon dioxide.

Special firefighting procedures: Firemen should wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Unusual fire and explosion hazards: Keep work areas free of hot metal surfaces and other sources of ignition.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE

Inhaled: May cause respiratory tract irritation. Heated or misted substance may cause headache, irregular eye movements and possible coma.

Contact with eyes: Exposure may cause eye irritation, redness, pain and burning.

Contact with skin: Exposure may cause skin irritation. Symptoms may include redness, burning, drying, and cracking skin, burns and skin damage.

Ingestion: May cause nausea and vomiting. Toxicity effects may include paralysis of eye muscles, convulsions, rapid heartbeat, kidney abnormalities and possible cardiac failure. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

HEALTH EFFECTS OR RISKS FROM EXPOSURE
Acute: Ethanol in this product may irritate the eyes.

Chronic (CANCER) Information: May have potential for causing reproductive damage in human.

Other Health Hazards: Long term or repeated exposure may dry the skin. Ethanol in this product may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Chronic ingestion of ethanol may cause liver cirrhosis. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

FIRST AID: EMERGENCY PROCEDURES
Eye Contact: Immediately flush eyes with lots of water for 15 minutes. get immediate medical attention.

Skin Contact: Immediately wash skin with lots of water. Remove contaminated clothing and shoes; wash before use. Get medical attention if irritation persists.

Inhaled: Remove to fresh air. If symptoms of overexposure occur seek medical attention.

Swallowed: Rinse mouth. Get medical attention.

COMMENTS: Ethanol has been identified as a carcinogen by IARC. Ethanol is also considered a developmental toxicant in humans by IARC.

RECOMMENDATIONS TO PHYSICIAN Treat symptomatically.

VI. REACTIVITY DATA

Stability: Stable under ordinary use and storage.

Incompatibility (materials to avoid): This product is incompatible with strong acids or bases, oxidizing agents and selected amines.

Hazardous Decomposition products (including combustion products): Thermal decomposition in the presence of air yield carbon monoxide and/or carbon dioxide.

Hazardous polymerization: Will not occur.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures: Stay upwind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. Universal type foam can be used to suppress vapors. Keep spills out of drains, sewers or waterways. Use sand or other inert materials to dam and contain spill. Do not flush area with water. Call spill response team if a large spill occurs. Notify appropriate state/local agencies. Preparing wastes for disposal: Dispose of product in accordance with local, county, state and federal regulation.

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VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below established below established exposure limits, additional ventilation or exhaust systems may be required. Where explosive limits, may be present, electrical systems safe for such locations must be used.

Respiratory Protection: The use of respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentrations, use a respirator or gas mask with appropriate cartridges and canisters (NIOSH approved, if available) or supplied air equipment.

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 to prevent skin contact and possible irritation Ventilation and engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below established below established exposure limits, additional ventilation or exhaust systems may be required. Where explosive limits, may be present, electrical systems safe for such locations must be used.

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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. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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