ALLIED PRESSROOM CHEMISTRY
MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER : **ALLIED IMAGEATER PENS**
(Corrector Pen for lithographic plates)

MANUFACTURER'S NAME: ALLIED PRESSROOM CHEMISTRY.

STREET ADDRESS
2040 LEE STREET, HOLLYWOOD, FLORIDA, 33020, USA

OFFICE TELEPHONE:	FAX:	24 HR. EMERGENCY TELEPHONE
800-327-8487	954-923-6462	800-424-9300 CHEMTREC

THIS IS AN INDUSTRIAL CHEMICAL PRODUCT. ALL INDUSTRIAL CHEMICAL PRODUCTS POSE AN INHERENT HEALTH RISK. BEFORE USE ALWAYS READ COMPLETE LABEL AND MSDS FOR SAFE HANDLING PROCEDURES

0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe

HEALTH HAZARD:	**4**
FIRE HAZARD:	**2**
REACTIVITY:	**0**
PROTECTIVE EQUIPMENT:	**C**

DO NOT ALLOW FLUID FROM PENS TO COME INTO CONTACT WITH EYES OR SKIN. DO NOT GET ON CLOTHING. DO NOT INGEST. FLUID IS EXTREMELY CORROSIVE

SECTION 2 – INGREDIENT INFORMATION

INGREDIENTS *These ingredients are subject to the reporting requirements of SARA 313 and 40 CFR 372	%	CAS NUMBER	HAZARD DATA	
Cyclohexanone*	84	108-94-1	ACGIH(TLV-TWA) 25 ppm-SKIN	
Hydrofluoric Acid*	7	7664-39-3	ACGIH (TLV-TWA) 3ppm	

This liquid is absorbed in an inert filler housed in a pen assembly. Each large pen contains less than 10 grams of liquid. Each small pen contains less than 1 gram.

ALL INGREDIENTS ARE LISTED IN THE US TOXIC SUBSTANCE CONTROL ACT (TSCA)

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE	ODOR AND APPEARANCE	WATER SOLUBILITY	PH	SPECIFIC GRAVITY
Liquid in Pen Body	Liquid is dark red Ketone odor	Soluble	0.5	1.0
VAPOR PRESSURE (MM Hg)	**VAPOR DENSITY (AIR=1)**	**EVAPORATION RATE (Butyl acetate = 1)**	**BOILING POINT (°F)**	**V.O.C.'s of liquid**
7 @ 20°C of pure liquid	>1	<1	212	84 % by Mass 6.5 lb per Gallon (778 g/l)

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY YES ■ NO ☐	IF YES, UNDER WHICH CONDITIONS? ∗ Pen may burn under fire conditions	
EXTINGUISHING MEDIA Carbon dioxide, chemical foam	SPECIAL FIRE FIGHTING PROCEDURES: Use self contained breathing apparatus if needed.	
FLASHPOINT (°F) AND METHOD 129 F TCC for the pure liquid	UPPER FLAMMABLE LIMIT (% BY VOLUME) : Unknown	LOWER FLAMMABLE LIMIT (% BY VOLUME): Unknown
AUTOIGNITION TEMPERATURE (°C) Not known	HAZARDOUS COMBUSTION PRODUCTS Oxides of carbon .	
EXPLOSION DATA ∗ NOT KNOWN	SENSITIVITY TO IMPACT NO	SENSITIVITY TO STATIC DISCHARGE NO

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY YES ■ NO ☐	CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERISATION None
INCOMPATIBILTY WITH OTHER SUBSTANCES None known	
HAZARDOUS DECOMPOSITION PRODUCTS: In contact with open flame or incandescent material will liberate carbon dioxide, carbon monoxide	This product is not photochemically reactive

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SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY

SKIN CONTACT ■ SKIN ABSORPTION ■ EYE CONTACT ■ INHALATION ■ INGESTION ■

ACUTE EXPOSURE TO PRODUCT:
Inhalation – Quantity of material is small - negligible inhalation risk, but will cause burns to respiratory system
Eye - Will cause burning, redness and tearing and corneal burns due to acid content. May cause blindness
Skin - Can cause severe burns. Hydrofluoric acid can penetrate unbroken skin and attack bone material.
Ingestion causes irritation and burns of the digestive tract. Can cause death if ingested

CHRONIC EXPOSURE TO PRODUCT: All of the above

CARCINOGENICITY: No ingredient present at greater than 0.1 % is identified as a carcinogen by OSHA, IARC or NTP

TARGET ORGAN EFFECTS: Eye, skin and bone material due to acidic content

EMERGENCY FIRST AID PROCEDURES:
EYES: Flush with running water for at least 15 minutes. Seek IMMEDIATE medical attention.
SKIN: Wash affected area with soap and water. Remove contaminated clothing and launder before re-use. Seek IMMEDIATE medical attention
INHALATION: Remove victim to fresh air. Administer oxygen and/or artificial respiration if breathing difficulties occur. Seek IMMEDIATE medical attention.
INGESTION: Do not induce vomiting. Dilute by drinking water and seek IMMEDIATE medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES	**RESPIRATOR**: Use NIOSH approved SCBA in emergency situations or confined areas.	**EYE** (SPECIFY)
Nitrile		Splash proof goggles or face shield

CLOTHING : Boots, aprons , or chemical suits should be used when necessary to prevent skin contact.

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS) : No special requirements since volume of active material is so small

LEAK AND SPILL PROCEDURE: Leak and spill from pen is unlikely due to small quantity of active material. If pen is taken apart absorb liquid in inert material and treat as corrosive.

WASTE DISPOSAL: Do not discard pen in trash .In all cases material should be disposed of in accordance with all applicable regulations.

HANDLING PROCEDURES AND EQUIPMENT: Keep pen closed when not in use. Do not keep in pockets. Do not place in mouth. Store only in a cool, dry, well ventilated area. Treat empty pens as containing hazardous residues. Keep away from children.
NOT TO BE USED BY UN-TRAINED PERSONNEL

SECTION 8 - ADDITIONAL INFORMATION

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CALIFORNIA PROPOSITION 65: *This regulation does not address "de minimis" levels. Therefore even trace amounts of chemicals* on *these lists must be identified. Trace quantities refer low levels of materials whose exact concentrations may not always be determined because of their minuteness.*
This product contains the following chemicals known by the state of California to cause cancer: None
This product contains the following chemicals known by the state of California to cause reproductive harm : None

SHIPPING INFORMATION: Not regulated for shipping purposes. Liquid is absorbed in an inert filler inside pen body and not present as a free flowing liquid.

SECTION 9 – PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP DEPARTMENT, ETC.)	PHONE NUMBER	DATE
ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT	1-800-327-8487	Sept 2010

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers, however, no warranty of merchantability, fitness for use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with each use. Since the information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its' use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume risk of his use thereof.