

# MATERIAL SAFETY DATA SHEET

## SECTION I

POLYMERIC IMAGING INC.  
117 E. 14<sup>TH</sup> AVENUE  
N. KANSAS CITY, MO 64116  
DAYTIME PHONE:800-746-5567  
24 HOUR PHONE:(CHEMTREC)800-424-9300  
ISSUED:10/23/00  
REVISED:05/30/03, 05.31.06, 092007.111709  
REVISION NUMBER:4

PRODUCT NAME: LX II  
PRODUCT CODE:LX II  
COMMON NAME:UV INK  
HMIS  
HEALTH:2  
FLAMMABILITY:1  
REACTIVITY:1

## SECTION II COMPONENTS

COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
ACRYLATE ESTER*	TS	NA	NA	NA
ACRYLATE ESTER	TS	NA	NA	NA
RESIN	TS	NA	NA	NA
KETONE INITIATOR	NA	NA	NA	NA
SYNERGIST	NA	NA	NA	NA
PIGMENTS	NA	15 MG/M3 DUST	NA	NA

ALL COMPONENTS USED ARE EITHER LISTED OR EXCLUDED FROM LISTING ON THE TSCA INVENTORY.

### SARA TITLE III SECTION 313 INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR 372.

\*MEETS THE DEFINITION OF THE GLYCOL ETHERS CATEGORY

CALIFORNIA PROP 65:

THIS PRODUCT CONTAINS, OR MAY CONTAIN, TRACE QUANTITIES OF A SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

### DOT/IATA SHIPPING INFORMATION

DOT COMMON NAME: NOT REGULATED  
DOT HAZARD CLASS:NOT REGULATED  
IATA COMMON NAME:NOT REGULATED  
IATA HAZARD CLASS:NOT REGULATED

## SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: °CELSIUS/°FAHRENHEIT	>150°CELSIUS
VAPOR PRESSURE: MMHG	NA
VAPOR DENSITY: AIR=1	HEAVIER THAN AIR
SPECIFIC GRAVITY: H2O=1	NA
MELTING POINT: °CELSIUS/°FAHRENHEIT	NA
EVAPORATION RATE:	SLOWER THAN DIETHYL ETHER

SOLUBILITY IN WATER:	INSOLUBLE
----------------------	-----------

#### SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: °CELSIUS/°FAHRENHEIT	>200°FAHRENHEIT
FLAMMABLE LIMITS:	
LEL	NA
UEL	NA
EXTINGUISHING MEDIA:	ALCOHOL FOAM CO2
	DRY CHEMICAL WATER FOG
CORROSIVE:	NO

#### SPECIAL FIREFIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT IS RECOMMENDED TO PROTECT FIRE FIGHTERS FROM ANY HAZARDOUS DECOMPOSITION PRODUCTS. WATER MAY BE UNSUITABLE FOR USE ON BURNING LIQUIDS. IF WATER MUST BE USED, FOG NOZZLES ARE HIGHLY PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION, EXPLOSION, OR RUPTURE WHEN EXPOSED TO EXTREME HEAT.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAMES. CLOSED CONTAINERS MAY RUPTURE OR EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CONSTITUTE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

#### SECTION V REACTIVITY DATA

STABILITY:	UNDER NORMAL CONDITIONS
CONDITIONS TO AVOID:	EXTREME TEMPERATURES, DIRECT SUNLIGHT, XRAY, ELECTRON BEAM/UV SOURCES
INCOMPATIBILITY: MATERIALS TO AVOID	STRONG ACIDS, OXIDIZERS, ALKALI METAL HYDROXIDES, POLYMERIZATION INITIATORS, PEROXIDES, INERT GASES, AMINES
HAZARDOUS DECOMPOSITION OR BYPRODUCTS	CARBON MONOXIDE, CARBON DIOXIDE, MIXED OXIDES OF NITROGEN, SULFUR AND METHACRYLATE MONOMERS
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR UNDER NORMAL CONDITIONS

#### SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY:	DERMAL, EYE, INGESTION, INHALATION
HEALTH HAZARDS: ACUTE/CHRONIC	DERMATITIS
CARCINOGENICITY:	VINYLPYRROLIDONE: RAT, 2YEAR INHALATION: BENIGN AND MALIGNANT TUMORS OBSERVED IN NASAL MUCOSA OF BOTH SEXES AT 20 PPM AND IN MALES AT 10 PPM; ONLY BENIGN TUMORS WERE SEEN AT 10 PPM IN FEMALES AND 5 PPM IN BOTH SEXES; LIVER AND LARYNGEAL TUMORS AT 20 PPM AND LIVER

	DAMAMGE AT 5 PPM IN BOTH SEXES.
NTP: OSHA:	NA
IARC MONOGRAPHS:	NA

**TOXICITY: VINYLPIRROLIDONE**

ACUTE ORAL LD50 MG/KG: 1500 RAT  
ACUTE DERMAL LD50 MG/KG: 560 RABBIT  
ACUTE INHALATION LC50 MG/L: 3.2 RAT

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:**

INGESTION: MAY CAUSE IRRITATION OF THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH. THERE MAY BE DISCOMFORT OR PAIN IN THE MOUTH, THROAT, CHEST AND ABDOMEN, WITH NAUSEA, VOMITING, DIARRHEA, DIFFICULTY SWALLOWING, WEAKNESS, THIRST, DIZZINESS, AND DROWSINESS. ASPIRATION INTO THE LUNGS MAY OCCUR DURING INGESTION OR VOMITING, RESULTING IN LUNG INJURY.

INHALATION: EXPOSURE TO VAPORS IS UNLIKELY DUE TO LOW VAPOR PRESSURE OF INGREDIENTS, BUT INHALATION OF MIST, AEROSOLS, OR VAPORS MAY RESULT IN IRRITATION OF RESPIRATORY TRACT COUGHING, SHORTNESS OF BREATH AND DIZZINESS.

SKIN: CONTAINS MATERIAL THAT MAY CAUSE SEVERE SKIN IRRITATION (REDDENING AND SWELLING) AND/OR SENSITIZATION. PROLONGED CONTACT MAY CAUSE BLISTER FORMATION (BURNS). SINCE IRRITATION MAY NOT OCCUR IMMEDIATELY, CONTACT CAN GO UNNOTICED.

EYE: CONTAINS MATERIALS THAT MAY CAUSE MODERATE IRRITATION, INCLUDING BURNING SENSATION TEARING, REDNESS OR SWELLING.

**MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: LUNG CONDITIONS, SENSITIZATION, OR ALLERGIES, SKIN AND EYE CONDITIONS.**

**EMERGENCY AND FIRST AID PROCEDURES:**

INGESTION: DRINK TWO GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY. BE PREPARED TO PROVIDE THE ATTENDING PHYSICIAN WITH A COPY OF THIS DOCUMENT.

INHALATION: REMOVE VICTIM TO A WELL VENTILATED AREA. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS REQUIRED. TREAT SYMPTOMATICALLY AND CONSULT PHYSICIAN.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH MILD SOAP AND WARM WATER. CONSULT A PHYSICIAN IF THERE IS ANY PERSISTING IRRITATION.

EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST FIFTEEN MINUTES. CONSULT PHYSICIAN.

**SECTION VII**

**PRECAUTIONS FOR SAFE HANDLING & USAGE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

PLACE LEAKING CONTAINERS IN A WELL VENTILATED AREA. AVOID BREATHING VAPORS. ELIMINATE ALL SOURCES OF HEAT, AS WELL AS ALL CONDITIONS NOTED IN SECTION VII, ABOVE. NOTIFY PROPER AUTHORITIES IF PUBLIC WATERS OR SEWERS ARE CONTAMINATED.

**WASTE DISPOSAL METHODS:**

THIS MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL ORDINANCES. INQUIRE OF YOUR LOCAL ENVIRONMENTAL AGENCIES FOR THE EXACT LEGAL REQUIREMENTS IN YOUR AREA.

**STORAGE:**

CARE SHOULD BE TAKEN TO STORE INK IN TIGHTLY CLOSED CONTAINERS LOCATED IN A COOL (60-80°F/15-27°C) DARK PLACE. AFTER LONG PRODUCTION RUNS, EXCESS INK FROM THE

SCREEN SHOULD BE PROPERLY DISPOSED OF. WITH SUITABLE CONDITIONS, UNOPENED INK IS EXPECTED TO HAVE A SHELF LIFE OF APPROXIMATELY TWELVE(12) MONTHS FROM THE DATE OF MANUFACTURE.

REFER TO SECTIONS IV, V, VI, VII AND IX OF THIS DOCUMENT BEFORE ATTEMPTING ANY CLEANUP.

## **SECTION VIII CONTROL MEASURES**

---

### **RESPIRATORY PROTECTION:**

EXPOSURE TO VAPORS IS UNLIKELY DUE TO LOW VAPOR PRESSURE OF INGREDIENTS, BUT INHALATION OF MIST, AEROSOLS OR VAPORS MAY RESULT IN IRRITATION OF RESPIRATORY TRACT COUGHING, SHORTNESS OF BREATH AND DIZZINESS. IF VAPORS OR MIST EXCEEDS AIR MONITORING LEVELS, A NIOSH APPROVED RESPIRATOR MAY BE USED.

### **VENTILATION:**

LOCAL EXHAUST RECOMMENDED WHEN APPROPRIATE TO CONTROL EXPOSURE TO MISTS OR AEROSOLS. GENERAL EXHAUST IS NORMALLY ADEQUATE TO MINIMIZE EXPOSURE TO VAPORS.

### **PROTECTIVE EQUIPMENT:**

**GLOVES**

**GOGGLES**

**SAFETY GLASSES**

**APRON**

**RESPIRATOR**

### **WORK/HYGIENIC PRACTICES:**

WASH HANDS BEFORE EATING, USING TOBACCO PRODUCTS, OR USING THE WASHROOM. TOBACCO AND FOOD SHOULD BE CONSUMED IN DESIGNATED AREAS ONLY.

### **PURCHASERS OBLIGATION**

POLYMERIC URGES THE CUSTOMER RECEIVING THIS MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY TO BECOME AWARE OF HAZARDS, IF ANY OF THE PRODUCTS INVOLVED. IN THE INTEREST OF SAFETY, YOU SHOULD(1) NOTIFY YOUR EMPLOYEES, AGENTS AND CONTRACTORS OF THE INFORMATION ON THIS SHEET, (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THIS PRODUCT, AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES, CUSTOMERS AND AGENTS AS WELL.

### **DISCLAIMER**

POLYMERIC MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR RELIABILITY OF INFORMATION CONTAINED HEREIN, EXCEPT THAT SUCH INFORMATION IS, TO THE BEST OF POLYMERIC'S KNOWLEDGE AND BELIEF, ACCURATE AS OF THE DATE INDICATED ON THIS DOCUMENT. FINAL DETERMINATION OF SUITABILITY OF MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.