

# 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: 03.10.10  
REVISED:  
REVISION NUMBER:

PRODUCT NAME: DURCERAM GLOSS  
CLEAR A&B  
PRODUCT CODE: 19662  
COMMON NAME: UV CURABLE INK  
HMIS  
HEALTH: 3  
FLAMMABILITY: 1  
REACTIVITY: 1

## SECTION II HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	WEEL	ACGIH TLV	% FORMULA
BISPHENOL-A EPOXY	TS	NE	NE	NE	TS
METHACRYLATE SILANE	TS	NE	NE	NE	<2%
ALIPHATIC AMINE <sup>1</sup>	TS	NE	1 PPM 6 MG/M3	NE	TS
CURING AGENT <sup>1</sup>	9046-10-0	NE	NE	NE	<20

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

### <sup>1</sup> SARA TITLE III 311/312 HAZARD CATEGORIES

ACUTE HEALTH HAZARD – ALIPHATIC AMINE, CURING AGENT  
CHRONIC HEALTH HAZARD – CURING AGENT

### \*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.

NONE

### DOT/IATA SHIPPING INFORMATION

DOT:

PART A: NOT REGULATED FOR TRANSPORT

PART B: POLYAMINES, LIQUID, CORROSIVE, N.O.S.(CONTAINS POLYALKYLAMINES), UN 2735, CLASS 8, PG III, ERG 153

IMDG:

PART A: NOT REGULATED FOR TRANSPORT

PART B: POLYAMINES, LIQUID, CORROSIVE, N.O.S.(CONTAINS POLYALKYLAMINES), UN 2735, CLASS 8, PG III, EMS F-A S-B

IATA:

PART A: NOT REGULATED FOR TRANSPORT

PART B: POLYAMINES, LIQUID, CORROSIVE, N.O.S.(CONTAINS POLYALKYLAMINES), UN 2735, CLASS 8, ERG 153

## SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: °CELSIUS/°FAHRENHEIT	>150°C
VAPOR PRESSURE: MMHG	NA
VAPOR DENSITY: AIR=1	NA
SPECIFIC GRAVITY:	NA

H2O=1	
MELTING POINT: °CELSIUS/°FAHRENHEIT	NA
EVAPORATION RATE: BUTYL ACETATE=1	NA
VOC	UNKNOWN
APPEARANCE AND ODOR:	CLEAR, ACRYLATE ODOR

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#### SECTION IV FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT: °CELSIUS/°FAHRENHEIT	>200°F
FLAMMABLE LIMITS:	
LEL	UNKNOWN
UEL	UNKNOWN
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. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR(HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS.

##### UNUSUAL FIRE AND EXPLOSION HAZARDS:

CLEAR FIRE AREA OF ALL NON-EMERGENCY PERSONNEL. COOL FIRE EXPOSED CONTAINERS WITH WATER. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

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#### SECTION V REACTIVITY DATA

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STABILITY:	UNDER NORMAL CONDITIONS	CONDITIONS TO AVOID:	PROTECT FROM MOISTURE, PEROXIDE, WATER, HEAT, FLAME AND SPARKS, STRONG OXIDIZING AGENTS, STRONG LEWIS OR MINERAL ACID AND ORGANIC BASES
HAZARDOUS DECOMPOSITION OR BYPRODUCTS			METHANOL, NITROGEN OXIDE, CARBON MONOXIDE
HAZARDOUS POLYMERIZATION			WILL NOT OCCUR UNDER NORMAL CONDITIONS

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#### SECTION VI HEALTH HAZARD DATA

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ROUTES OF ENTRY:	INHALATION, EYE, SKIN, INGESTION
HEALTH HAZARDS: ACUTE/CHRONIC	ACUTE INHALATION TOXICITY CORROSIVE TO SKIN, EYES, RESPIRATORY TRACT
CARCINOGENICITY:	UNKNOWN

NTP: OSHA:	UNKNOWN
IARC MONOGRAPHS:	UNKNOWN

**TOXICITY:**

**CURING AGENT:**

ACUTE ORAL TOXICITY: LD50>2000 MG/KG

ACUTE DERMAL TOXICITY: LD50>2000 MG/KG

**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: INHALATION OF MIST, AEROSOLS, OR VAPORS MAY RESULT IN IRRITATION OF RESPIRATORY TRACT COUGHING, SHORTNESS OF BREATH AND DIZZINESS.

SKIN: CORROSIVE TO 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 ARE CORROSIVE TO EYES.

**MEDICAL CONDITONS AGGRAVATED BY EXPOSURE:**

DERMATITUS, LUNG CONDITIONS(I.E. ASTHMA), SENSITIZATION, 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:**

AS A HAZARDOUS WASTE, 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.

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

## **SECTION VIII CONTROL MEASURES**

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### **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.

### **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.