



## SAFETY DATA SHEET

### 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance or preparation:**

Name: Digital MGC - Photopolymer Plate

Product code: not assigned

**Company/undertaking identification:**

MacDermid Printing Solutions

Phillip Lee Drive SW, Atlanta, GA, 30336 USA

Phone 404-696-4565

www.macdermid.com/printing

**Emergency telephone: 404-696-4565**

### 2 - IDENTIFICATION OF HAZARDS

**NFPA Rating**

**0 Health**                      **1 Flammability**  
**0 Reactivity**                      **Other**

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

Chemical Name	CAS #	Weight %	OSHA PEL	ACGIH TLV
Styrenic copolymer with plasticizer	Proprietary	85-95%	NE	NE
Acrylic Ester	Proprietary	5 - 10 %	NE	NE
Photoinitiator	Proprietary	1 - 2%	NE	NE
BHT	128-37-0	0.65 - 2.3%	10mg/m3	10mg/m3

**Physical State**                      Solid photoelastomer plate [Partially cured elastomer with polyester backing between polyester film (one transparent and one black, non-transparent) / mild odor]

**Potential acute health effects**

**Inhalation**                      None under normal use  
**Ingestion**                      None under normal use  
**Skin**                              None under normal use  
**Eyes**                              None under normal use

**Potential chronic health effects**

**Ingestion**                      None under normal use  
**Skin**                              None under normal use  
**Eyes**                              None under normal use

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous substances present on their own:**

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

None

**Other substances representing a hazard: Not applicable**

**Substances present at a concentration below the minimum danger threshold: Not applicable**

**Other substances with occupational exposure limits: Not applicable**

**4 - FIRST AID MEASURES**

Contact a physician in all cases of exposure . First Responders should provide for their own safety prior to rendering assistance.

<b>Eyes</b>	None under normal use. Material is combustible. Combustion results in products of incomplete combustion.
<b>Skin</b>	None under normal use. Repeated or prolonged contact may cause skin sensitization, edges of metal backing may cause cuts. Material is combustible. Combustion results in products of incomplete combustion.
<b>Ingestion</b>	None under normal use. Material is combustible. Combustion results in products of incomplete combustion.
<b>Inhalation</b>	None under normal use. Material is combustible. Combustion results in products of incomplete combustion.
<b>Caution</b>	None under normal use. Material is combustible. Combustion results in products of incomplete combustion. Use supplied air respirator to fight large fires

**5 - FIRE-FIGHTING MEASURES**

<b>Flash Point</b>	Not applicable
<b>Extinguishing Media</b>	Water, carbon dioxide, standard fire extinguishers suitable for combustible solids
<b>Unusual Fire &amp; Explosion Hazards</b>	Material is combustible. Combustion results in products of incomplete combustion. Use supplied air respirator to fight large fires

**6 - ACCIDENTAL RELEASE MEASURES**

**In case of Transportation Accidents, call the following 24 hour telephone number :**

<b>USA</b>	CHEMTREC (1-800-424-9300)
<b>International</b>	(To be Determined)

**SPILL CONTROL AND RECOVERY** Material is a solid. No spill control is required.

Due to more restrictive waste disposal regulations, NEVER dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

**7 - HANDLING AND STORAGE**

<b>STORAGE TEMPERATURE</b>	Ambient. Best to store below 100 °F to retain product quality.
<b>PROPER STORAGE CONDITIONS AND WARNINGS</b>	Protect from particulate contamination of the surface. Store away from sunlight.
<b>SPECIAL HANDLING DURING USE</b>	Wear heat resistant gloves when handling hot plates. Wear chemical resistant gloves when handling developed plates before drying. Safety glasses may be required when developing plates.

**8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**OSHA/HCS status** OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:  
Based on our evaluation, the following ingredients in this product are subject to this rule:

Not a hazardous material regulated by OSHA or HCS

<b>RESPIRATORY PROTECTION</b>	None required during normal use. Note precautions in fire fighting.
<b>VENTILATION</b>	None required during normal use.
<b>PROTECTIVE EQUIPMENT</b>	None required during normal use. Note precautions in fire fighting.

These are general recommendations to provide a safe level of protection for various material handling conditions . Consult with your Safety Professional /Industrial Hygienist for specific information regarding applications at your facility.

**9 - Physical and Chemical Properties**

<b>Density</b>	0.98 g / cubic centimeter	<b>Appearance/ Physical state</b>	Photopolymer plate / solid
<b>Specific Gravity</b>	N / A	<b>pH</b>	N / A
<b>Freezing Point</b>	N / A	<b>Flash Point</b>	N / A
<b>Vapor Pressure</b>	N / A	<b>Volatile %</b>	N / A
<b>Boiling Point</b>	N / A	<b>Melting Point</b>	N / A
<b>Chemical Oxygen Demand (COD)</b>	N / A	<b>Biological Oxygen Demand (BOD)</b>	N / A
<b>Solubility in water</b>	N / A	<b>Color/Odor/Odor threshold</b>	Clear to tan/ mild odor / not established

NOTE : These physical properties are typical values for this product .

**10 - STABILITY AND REACTIVITY**

<b>INCOMPATIBILITY</b>	None during normal use.
<b>HAZARD DECOMPOSITION</b>	When combusted, releases products of incomplete combustion. Thermal decomposition above 400°F
<b>PRODUCTS STABILITY</b>	Stable.
<b>HAZARDOUS POLYMERIZATION</b>	None.

**11 - TOXICOLOGY INFORMATION**

**TOXICITY STUDIES :** Toxicity studies have not been conducted on this product . However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

**ACUTE ORAL TOXICITY** Material is a solid with no known toxicity.

**ACUTE DERMAL TOXICITY** Material is a solid with no known toxicity.

**ACUTE RESPIRATORY TOXICITY** Material is a solid with no known toxicity.

**HAZARD REVIEW (THR)** Material is a solid with no known toxicity.

Listed as suspected carcinogen by :

IARC NO

NTP NO

OSHA NO

**12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** None known

**13 - DISPOSAL CONSIDERATIONS**

Refer to Section 7: Handling and Storage and Section 8: Exposure controls / Personal Protection for additional handling information and protection of employees .

**14 - TRANSPORTATION INFORMATION**

**Not Regulated.**

## 15 – REGULATORY INFORMATION

The following regulations apply to this product.

### **FEDERAL REGULATIONS Not Regulated**

### **STATE REGULATIONS**

#### CALIFORNIA PROPOSITION 65

This product contains ingredient(s) listed on California Prop 65 suspected carcinogen list

#### MICHIGAN CRITICAL MATERIALS

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

### **EUROPEAN UNION Not Regulated**

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## 16- OTHER INFORMATION

Prepared by MacDermid's Safety & Regulatory Compliance Department, based upon publicly available reference information. To the best of our knowledge the information contained herein is correct. All chemicals 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 which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.