



**BRADEN SUTPHIN**

**I N K   C O M P A N Y**

THE COLOR OF LEADERSHIP

SHEETFED | HEATSET | FLEXO

## **MATERIAL SAFETY DATA SHEET**

### **PRODUCT NAME(S):**

**DIA-CURE UV PROCESS YELLOW**

Product Number: UIY007

### **HMIS RATING**

**2 Health**

**1 Flammability**

**2 Reactivity**

Product class: Energy Curable Ink

### **HAZARD IDENTIFICATION:**

#### **Chemical Name**

Mixture of proprietary acrylate oligomers,  
Photoinitiators and Monomers

#### **Cas#**

Chemical Mixture

#### **OSHA PEL**

Not Established

#### **ACGIH TLV**

Not Established

### **PHYSICAL DATA:**

Bulk Density: approx. 9.0 lbs/gal

Appearance: Colored Paste, semi-solid

VOC's by weight: less than or equal to .25%

Vapor Density (vs Air): Heavier

Odor: Slight Oily Smell

Evaporation Rate (vs Butyl Acetate): Slower

### **FIRE AND EXPLOSION DATA:**

#### Flammability Summary:

Combustible at elevated temperatures NFPA IIIB (NFPA description only; not to be used for shipping purposes)

Extinguishing Media: Use alcohol resistant foam, carbon dioxide or dry chemical when fighting fires.

Water or foam may cause frothing if liquid is burning, but may be useful. Do not direct a stream of water into the hot burning liquid.

#### Unusual Fire and Explosion Hazards:

High temperature and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels.

#### Special Fire Fighting Procedures:

Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas.

### **REACTIVITY DATA:**

Product Stability: Stable

Conditions to Avoid: Hazardous Polymerization, avoid areas of high temperature greater than 115<sup>0</sup> F. Avoid oxygen deficient atmospheres which can reduce inhibitor and may cause polymerization, raising the internal temperature and pressure, possibly rupturing the container. DO NOT BLANKET OR MIX WITH NITROGEN or other inert gases as this renders the polymerization inhibitor ineffective.

### **SPECIAL PRECAUTIONS:**

HANDLING AND STORING: Keep containers closed when not in use.

Avoid storing at temperatures greater than 140°F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, or contamination with incompatible materials.

Avoid contacting and avoid breathing this material.

MATERIALS TO AVOID: Polymerization initiators, including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, nickel, cobalt, strong bases, ultraviolet light and/or sunlight.

OTHER PRECAUTIONS: For industrial use only.

### **HEALTH HAZARD DATA:**

#### **EFFECTS OF OVEREXPOSURE:**

SKIN: Contains materials that may cause moderate skin injury (reddening or swelling) and/or sensitization. Prolonged contact may cause blister formations (burns). Since irritation may not occur immediately, contact may go unnoticed.

EYES: Moderate irritant. Can cause burning sensation, tearing, swelling and redness. Injury may persist for several days.

INHALATION: Not expected to be a hazard due to low volatility under standard conditions. Inhalation of mist or vapor may cause irritation of respiratory tract.

INGESTION: May cause irritation of the mouth, throat and gastrointestinal tract.

PRIMARY ROUTE OF ENTRY: Eye and Skin contact.

#### **FIRST AID PROCEDURES:**

SKIN: Remove contaminated clothing. Wash thoroughly with soap and water, at least 15-minutes. Pay particular attention to hair. Nose, ears and other areas not easily cleaned.

EYES: Rinse thoroughly with water, at least 15 minutes. Consult physician.

INHALATION: Remove to fresh air. Apply artificial respiration and/or oxygen if needed. Consult physician.

INGESTION: Do not induce vomiting. Consult physician.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with pre-existing eye and skin disorders can be at greater risk. Those known to be sensitive to acrylates should avoid all exposure to this product.

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### **SPILL OR LEAK PROCEDURES:**

PROCEDURE WHEN SPILLED OR RELEASED: Remove all ignition sources, as this spilled material may polymerize. Move leaking containers to ventilated area. Stop discharge, if it can be performed safely, and contain material. Dispose of in containers approved for oily waste. Prevent run off to sewers, streams, or other waterways.

WASTE DISPOSAL: Landfill, or incineration, in accordance with Local, State, and Federal regulations.

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## **SPECIAL PROTECTION INFORMATION:**

VENTILATION: Adequate ventilation must be provided to avoid mist concentration below PEL.

PROTECTIVE GLOVES: Impervious gloves (neoprene). A combination barrier cream, applied before exposure, and gloves are recommended. DO NOT APPLY CREAM AFTER EXPOSURE.

RESPIRATORY PROTECTION: When exposed to aerosols or vapors, use full face organic vapor cartridge respirator with particulate pre-filter. In emergency situations, use self-contained breathing apparatus or other air-supplied full face respirator.

EYE PROTECTION: Plastic face shield, safety glasses or goggles may be worn.

OTHER PROTECTIVE EQUIPMENT: Use "Good Manufacturing Practices" when using these materials. Safety glasses, neoprene gloves and appropriate work shoes (with limited skin exposure) are recommended.

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## **REGULATORY INFORMATION:**

TSCA Status All ingredients in this product are listed or are excluded from listing on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory

### **The following items require export notification for TSCA**

Chemical Name

TSCA 12b list section

None

The following chemicals are disclosed to satisfy New Jersey and Pennsylvania Right to Know Laws:

PIGMENT YELLOW 13

Proprietary Monomer Tri-acrylate

Proprietary Ingredient

Proprietary Polyester Acrylate

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While the information and recommendations set forth herein are believed to be accurate as of the date hereof, BRADEN SUTPHIN INK CO. makes NO WARRANTY WITH RESPECT HERE TO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Date: January 16, 2015

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MSDS for: DIA-CURE UV PROCESS YELLOW