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9411 Corsair Road  
Frankfort, IL 60423  
1-800-552-0299 Phone  
1-815-464-5650 Fax

**EMERGENCY PHONE 1-800-255-3924**

## MATERIAL SAFETY DATA SHEETS

### MP 53037

### UV-CURING

|             |               |          |                     |          |                   |          |
|-------------|---------------|----------|---------------------|----------|-------------------|----------|
| <b>HMIS</b> | <b>HEALTH</b> | <b>2</b> | <b>FLAMMABILITY</b> | <b>1</b> | <b>REACTIVITY</b> | <b>0</b> |
| <b>NFPA</b> | <b>HEALTH</b> | <b>2</b> | <b>FIRE HAZARD</b>  | <b>1</b> | <b>REACTIVITY</b> | <b>0</b> |

#### 1. GENERAL INFORMATION

|                  |                                    |
|------------------|------------------------------------|
| PRODUCT NAME:    | MP 53037                           |
| CHEMICAL FAMILY: | Ultraviolet light curing adhesives |
| CHEMICAL NAME:   | Methacrylate esters                |

#### 2. COMPOSITION

| Ingredients                 | CAS No.    | %     |
|-----------------------------|------------|-------|
| Urethane methacrylate resin | 5888-33-5  | 20-50 |
| High boiling methacrylate   | 7534-94-3  | 15-35 |
| Hydroxyalkyl methacrylate   | 868-77-9   | 20-35 |
| ACRYLIC ACID*               | 79-10-7    | 1-5   |
| Photoinitiator              | 24650-42-8 | 1-3   |
| Substituted silane          | 2530-83-8  | 0,1-1 |

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients | ACGIH<br>(TLV)                               | OSHA<br>PEL                                  | OTHER                             |
|--------------------------------------|--|--|-----------------------------------|
| Hydroxyalkyl methacrylate            | None   | None   | 3 ppm ceiling                     |
| ACRYLIC ACID                         | 2 ppm TWA skin<br>5.9 mg/m <sup>3</sup> skin | 10 ppm TWA skin<br>30 mg/m <sup>3</sup> skin | 1 ppm TWA skin<br>3 ppm STEL skin |

#### 3. HAZARD INFORMATION

|  |  |
|--|--|
| Toxicity:                                      | Severe eye irritant. Moderate skin irritant.                           |
| Primary Routes of Entry:                       | Eyes, skin   |
| Signs and Symptoms<br>of Exposure:             | May cause dermatitis on prolonged contact in<br>sensitive individuals. |
| Existing Conditions<br>Aggravated by Exposure: | None known   |

#### 4. FIRST AID PROCEDURES

|               |  |
|---------------|--|
| Ingestion:    | Do not induce vomiting. Keep individual calm.<br>Obtain medical attention.   |
| Inhalation:   | Does not apply   |
| Skin Contact: | Wash with soap and water.  |
| Eye Contact:  | Flush at least 15 minutes with plenty of water. Obtain<br>medical attention. |

#### 5. FIRE FIGHTING MEASURES

|   |                                    |
|---|------------------------------------|
| Flash Point:  | More than 200°F                    |
| Extinguishing Agents:   | Carbon dioxide, foam, dry chemical |
| Special Firefighting<br>Procedures:                             | Not available                      |
| Hazardous Products formed<br>by Fire or Thermal Decomposition:  |                                    |
| Irritating organic vapors<br>Unusual Fire or Explosion Hazards: | None                               |



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### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store in closed container until disposal.

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### 7. HANDLING AND STORAGE

Safe Storage:

Store at or below 100°F

Handling:

Avoid prolonged contact with eyes and skin.

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### 8. EXPOSURE AND PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Neoprene, rubber, or butyl rubber gloves.

Ventilation:

Does not apply

Respiratory

Not available

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor:

Mild

Boiling Point:

More than 300°F

pH:

Does not apply

Solubility in Water:

Slight

Specific Gravity

1.1 at 25°C

Vapor Pressure:

Less than 0,5 mmbar at 25°C

Vapor Density:

Not available

Evaporation Rate

(Ether = 1)

Not available

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### 10. REACTIVITY

Stability:

Stable

Hazardous Polymerization:

Will not occur

Incompatibility:

None

Conditions to Avoid:

Not available

Hazardous Decomposition

Products (non-thermal):

None

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### 11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg.

Estimated dermal LD50 more than 2000 mg/kg.

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### 12. ECOLOGICAL INFORMATION

No data available

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### 13. DISPOSAL INFORMATION

Recommended methods of disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material



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### 14. TRANSPORTATION INFORMATION

|                           |              |
|---------------------------|--------------|
| DOT (49 CFR 172)          |              |
| Domestic Ground Transport |              |
| Proper Shipping Name:     | Unrestricted |
| Hazard Class or Division: | Unrestricted |
| Identification Number:    | None         |
| Marine Pollutant:         | None         |
| IATA                      |              |
| Proper Shipping Name:     | Unrestricted |
| Class or Division:        | Unrestricted |
| UN or ID Number:          | None         |

### 15. REGULATORY INFORMATION

LABELING AS EC REGULATIONS IN FORCE  
 HAZARD SYMBOL ST. ANDREW'S CROSS – Xi = irritating.  
 CONTAINS: METHACRYLATE ESTERS.  
 RISK AND SAFETY PHRASES:  
 R36/37/38 Irritating to eyes skin and respiratory systems  
 S26 In case of contact with eyes, flush immediately with copious amounts of water and consult medical personnel.  
 S28 In case of contact with skin was immediately with copious amounts of water and soap.

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