

## SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** HX Series Hot Stamping Foil

**General Use:** Hot Stamping Holographic Foil

**Company:** Infinity Foils, Inc. – A UEI Group Company  
**Address/Phone:** PO Box 14275  
Lenexa, KS 66285-4275  
+1 913 888 7340 or +1 877 932 3645 (US Only)

**Emergency Contact Number:** CHEMTREC – Available 24 hrs/day, 7 days/week  
Domestic North America: +1 800 424 9300  
International: +1 703 527 3887

## SECTION II HAZARDOUS INGREDIENTS / IDENTIFIY INFORMATION

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration*</u>
Polyethylene terephthalate (PET film)	2308-59-9	81 - 86%
Polyacrylic copolymer	9010-88-2	5 - 20%
Polyester	Mixture	5 - 20%
† Methyl methacrylate	80-62-6	< 0.3%
Aluminium	7429-90-5	< 0.1%
Dye	-	< 0.1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA criteria.

## SECTION III HAZARD IDENTIFICATION

### Emergency Overview

**Physical State:** Roll

**Color:** Varies with product

**Odor:** Resin

Low hazard for usual industrial or commercial handling by trained personnel.  
Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely.

### Potential Health Effects

**Inhalation:** During curing, the product will release small quantities of irritating vapors.

**Eye Contact:** May cause minor irritation on eye contact.

**Skin Contact:** Prolonged skin contact may cause temporary irritation.

**Ingestion:** Not relevant, due to the form of the product.

**Potential Physical / Chemical Effects:** This product is not flammable.

**OSHA Regulatory Status:** This product is not hazardous according to OSHA 29CFR 1910.1200.

**Environment:** The environmental hazard of the product is considered to be limited.

**SECTION IV FIRST AID MEASURES**

**Inhalation:** Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

**Eye Contact:** Flush eyes thoroughly with water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**Skin Contact:** Wash contact areas with soap and water. If irritation occurs, get medical assistance.

**Ingestion:** Not likely, due to the form of the product. If ingestion occurs: Rinse mouth thoroughly. Get medical attention if symptoms occur.

**SECTION V FIRE FIGHTING MEASURES**

**Extinguishing Media:** Carbon dioxide or dry powder.

**Unsuitable Extinguishing Media:** None.

**Special Fire Fighting Procedures:** No specific precautions.

**Unusual Fire & Explosion Hazards:** By heating and fire, harmful vapors/gases may be formed.

**Hazardous Combustion Products:** Carbon Dioxide, Carbon Monoxide

**Protective Measures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION VI ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Avoid any exposure. See Section 8 of the MSDS for Personal Protective Equipment.

**Spill Cleanup Methods:** Shovel up and place in a container for salvage or disposal.

**SECTION VII HANDLING AND STORAGE**

**Handling:** All handling to take place in well-ventilated area. Do not breathe fumes produced at elevated temperatures. Observe good industrial hygiene practices.

**Storage:** Store in a cool, dry place out of direct sunlight.

**SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Limits:**

Chemical Name	Source	Type	Exposure Limits
Methyl methacrylate	US. ACGIH TLV	TWA	50 ppm
Methyl methacrylate	US. ACGIH TLV	STEL	100 ppm
Methyl methacrylate	US. NIOSH Guide	IDLH	1000 ppm
Methyl methacrylate	US. OSHA Z-1 PEL	TWA	100 ppm 410 mg/m <sup>3</sup>

**Engineering Controls:** Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Provide adequate ventilation.

**Respiratory Protection:** In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Use a NIOSH-approved respirator (See 29 CFR 1910.134, respiratory protection standard).

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended. Risk of contact: Wear approved safety goggles.

**Hand Protection:** Wear protective gloves.

**Skin Protection:** Risk of contact: Use skin protection.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental Exposure Controls:** Environmental manager must be informed of all major spillages.

**SECTION IX PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	Varies with product	<b>Odor:</b>	Resin
<b>Odor Threshold:</b>	No data available	<b>Physical State:</b>	Roll
<b>pH:</b>	Not applicable	<b>Melting Point:</b>	No data available
<b>Freezing Point:</b>	No data available	<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	Not applicable	<b>Evaporation Rate:</b>	Not applicable
<b>Flammability (Solid):</b>	No data available	<b>Flammability Limit – Upper (%):</b>	No data available
<b>Flammability Limit – Lower (%):</b>	No data available	<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density (Air=1):</b>	Not applicable	<b>Specific Gravity:</b>	No data available
<b>Solubility in Water:</b>	Insoluble	<b>Solubility (Other):</b>	Not applicable
<b>Partition Coefficient (n-Octanol/water):</b>	No data available	<b>Autoignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available		

**SECTION X STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under normal temperature conditions and recommended use.
<b>Conditions to Avoid:</b>	Excessive heat.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products:</b>	
At Elevated Temperatures:	Carbon Dioxide, Carbon Monoxide
<b>Possibility of Hazardous Reactions:</b>	Will not occur.

**SECTION XI TOXICOLOGICAL INFORMATION**

Specified Substance(s)

**Acute Toxicity:**  
**Test Results:** No test data available for the ingredients

**Listed Carcinogens:**

Chemical Name	IARC	NTP	OSHA	ACGIH
Methyl methacrylate	3	Not Listed	Not Listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH

**Product Information**

**Acute Toxicity:**

**Test Results:** No test data available for the ingredients

**Other Acute:** No additional adverse health effects noted.

**Chronic Toxicity:** No data available.

**SECTION XII ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not expected to be harmful to aquatic organisms.

**Mobility:** The product is insoluble in water.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available on bioaccumulation.

**SECTION XIII DISPOSAL INFORMATION**

**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**SECTION XIV TRANSPORT INFORMATION**

**DOT:** Not regulated.

**IATA:** Not regulated.

**IMDG:** Not regulated.

**SECTION XV REGULATORY INFORMATION**

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):**

Chemical Name	RQ
Methyl methacrylate	1000 lbs

**SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated

**Section 311/312 (40 CFR 370):**

Acute (Immediate)    
  Chronic (Delayed)    
  Fire    
  Reactive    
  Pressure Generating

**Section 313 Toxic Release Inventory (40 CFR 372):**

Chemical Name	CAS-No.	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Methyl methacrylate	80-62-6	10000 lbs	25000 lbs

For reporting purposes: the De Minimis Concentration for a toxic chemical in a mixture is 0.1% for carcinogens as defined in 29 CFR 1910.1200(d)(4) or 1% for others.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Methyl methacrylate

**Drug Enforcement Act:** Not regulated

**TSCA**

**TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** Not regulated

**TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E):** Not regulated

**TSCA Section 5(e) PMN-Substance Consent Orders:** Not regulated

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated

**State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Not regulated

**Massachusetts Right-To-Know List:** Not regulated

**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** Not regulated

**Minnesota Hazardous Substances List:** Not regulated

**New Jersey Right-To-Know List:** Not regulated

**Pennsylvania Right-To-Know List:** Not regulated

**Rhode Island Right-To-Know List:** Not regulated

**SECTION XVI OTHER INFORMATION**

**Hazard Ratings**

	Health Hazard	Fire Hazard	Instability	Special Hazard
<b>NFPA</b>	1	0	0	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe  
 NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
<b>HMIS</b>	1	0	0	E

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe



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Personal Protection codes: E - Safety Glasses, Gloves, Dust Respirator  
HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

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