

84113-XXXX



# TEST REPORT

**LAB LOCATION:** Norwood, MA, USA

**ISSUE DATE:** October 21, 2019

**REPORT NUMBER:** 67319-100012

**PAGE:** Page 1 of 2

**Applicant** : Signature Mktg & Mfg, Inc  
**Sample Description** : Light Cure UV Curable Resin  
**Date of Submission** : October 2, 2019  
**Test Performance Dates** : October 2, 2019 – October 21, 2019

## TEST RESULTS SUMMARY

Test Requested	Results
US SDS	Please refer to the report.

For and on behalf of  
**Modern Testing Services, LLC**

Jongsei Park, Ph.D.  
 Fellow, Academy of Toxicological Sciences  
 UK Register of Toxicologists  
 European Registered Toxicologist (ERT)  
 Diplomate, American Board of Forensic Toxicology  
 CLD, American Board of Bioanalysis

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Item Numbers: 84113-1001, 84113-1006, 84113-1022, 84113-2022, 84113-3012, 84113-3062, 84113-5012, 84113-6002

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## PHOTOGRAPH OF SUBMITTED SAMPLE



### Note:

If there are questions or concerns regarding the test results, please contact:

Jongsei Park (Ph.D; CEO; Chemist/Toxicologist)

Tel. 508-638-1793

Mobile 508-208-5994

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**US SAFETY DATA SHEET**

In accordance with Occupational Safety and Health Act (1970)  
Hazard Communication Standard 2012 (29 CFR 1910-1200) (HazCom 2012)  
(Based on UN GHS/CLP)

**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION****1.1 Product Identifiers:**

Product Name: **Light Cure UV Curable Resin  
(Colors: Clear, Pink, Hot Pink, Fuchsia, Orange, Red, Yellow,  
Green, Teal, Blue, Violet, Purple, Black, White)**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Uses: /

**1.3 Details of the supplier of the safety data sheet**

Company: Modern Testing Services, LLC  
349 Lenox Street  
Norwood, MA 02062, USA

Telephone: 1-508-638-1793

Fax: 1-508-638-1759

**1.4 Details of the applicant of the safety data sheet**

Company: Signature Mktg & Mfg, Inc  
301 Wagaraw Road  
Hawthorne, NJ 07506  
Contact: Michael Assile  
Telephone: (973) 427-3700  
E-mail: mike@signaturecrafts.com

Emergency Phone #: 1-800-222-1222 (Poison Control)

**SECTION 2 – HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

**GHS Classification:** Skin irritation, category 2  
Skin sensitization, category 1  
Eye irritation, category 2A

**2.2 GHS Label elements, including precautionary statements****GHS Labels:****Pictograms:****Signal Word:**

Warning

**Hazard Statement:**

H315: Causes skin irritation  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation

**Precautionary Statements**

**Prevention Precautionary Statements:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P264: Wash thoroughly after handling  
P272: Contaminated work clothing should not be allowed out of the workplace.

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P280: Wear protective gloves/protective clothing/eye protection/face protection

**Response Precautionary Statements:** P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.  
P205+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.  
P337+313: If eye irritation persists, get medical advice/attention.

**Storage Precautionary Statements:** None

**Disposal Precautionary Statements:** P501: Dispose of contents and container in accordance with local/regional/national/international regulations.

### 2.3 Description of any hazards not otherwise classified

None. No health hazard after curing. See section 11 for more detailed information on health effects and symptoms.

## SECTION 3 – COMPOSITION ON INGREDIENTS

### 3.1 Substances

Chemical Name	CAS Number	Percent by Weight
Polyurethane acrylate prepolymer	Proprietary	50-75
Hexamethylene diacrylate	13048-33-4	5-20
Acrylate monomer	Proprietary	1-10
Photoinitiator A: 2-hydroxy-2-methylpropiophenone	7473-98-5	1-10

## SECTION 4 – FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

This product is not expected to produce any unusual hazards during normal use. If you feel unwell, seek medical advice. Consult a physician.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash with water and soap and rinse thoroughly after use. Obtain medical attention if irritation occurs, develops or persists.

#### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do not rub eyes and seek medical advice if irritation develops or persists.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Under normal conditions of intended use, this product is not expected to be a health risk.

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- 4.3 Indication of any immediate medical attention and special treatment needed**  
No additional information available.

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**SECTION 5 – FIREFIGHTING MEASURES**

- 5.1 Extinguishing media**  
**Suitable extinguishing media**  
Use water spray, dry chemical, carbon dioxide, or chemical foam.
- 5.2 Special hazards arising from the substance or mixture**  
No additional information available.
- 5.3 Advice for firefighters**  
**Precautionary measures**  
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.  
**Fire-fighting equipment/instructions**  
Exercise caution when fighting any chemical fire.  
**Protection during firefighting**  
Do not enter fire area without proper protective equipment, including respiratory protection.
- 5.4 Further information**  
None.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
**General Measures**  
Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.
- For Non-Emergency Personnel**  
Protective Equipment: Use appropriate personal protection equipment (PPE).  
Emergency Procedures: Evacuate unnecessary personnel.
- For Emergency Personnel**  
Protective Equipment: Equip cleanup crew with proper protection.  
Emergency Procedures: Ventilate area.
- 6.2 Environmental precautions**  
Avoid discharge to drains, sewers, and other water systems.
- 6.3 Methods and materials for containment and cleaning up**  
Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal.
- 6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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**SECTION 7 – HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from water or moisture.
- 7.3 Specific end use(s)**  
No further information available.

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**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Not Known

**8.2 Exposure controls****Appropriate engineering controls**

None needed.

**Personal protective equipment****Eye/face protection**

Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin protection**

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Gloves: Natural rubber, Neoprene, PVC or equivalent.

**Body protection**

Protective clothing is not required under normal conditions.

**Respiratory Protection**

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

**Control of environmental exposure**

Not needed.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from foodstuffs, beverages and food.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

a) Appearance	Liquid
b) Colour	Various
c) Odour	Not known
d) Odour Threshold	Not known
e) pH	Not known
f) Melting point/freezing	Not known
g) Initial boiling point and boiling range	Not known
h) Flash point	Not known
i) Evaporation rate	Not known
j) Flammability (solid/gas)	Not known
k) Upper/lower flammability or explosive limits	Not known
l) Vapour pressure	Not known
m) Vapour density	Not known
n) Relative density	Not known

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o) Water solubility	Not known
p) Partition coefficient: n-octanol/water	Not known
q) Auto-ignition temperature	Not known
r) Decomposition temperature	Not known
s) Viscosity	Not known
t) Explosive properties	Not known
u) Oxidizing properties	Not known

**9.2 Other safety information**  
None.

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**SECTION 10 – STABILITY AND REACTIVITY**

- 10.1 Precautions for safe handling**  
Not known.
- 10.2 Chemical stability**  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions**  
Not known.
- 10.4 Conditions to avoid**  
Excessive heat, water and moisture.
- 10.5 Incompatible materials**  
Strong oxidizing agents.
- 10.6 Hazardous decomposition products**  
Not known.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity**  
Not known.

**Skin corrosion/irritation**  
May cause skin irritation.

**Serious eye damage/eye irritation**  
May cause eye irritation.

**Respiratory or skin sensitisation**  
Not known.

**Germ cell mutagenicity**  
Not known.

**Carcinogenicity**

IARC: Not known.  
ACGIH: Not known.  
NTP: Not known.  
OSHA: Not known.

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**Reproductive toxicity**

Not known.

**Specific target organ toxicity-single exposure**

Not known.

**Specific target organ toxicity-repeated exposure**

Not known.

**Aspiration hazard**

Not known.

**Additional information**

None.

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**SECTION 12 – ECOLOGICAL INFORMATION****12.1 Toxicity**

Avoid release to the environment.

**12.2 Persistence and degradability**

Not known.

**12.3 Bioaccumulative potential**

Not known.

**12.4 Mobility in soil**

Not known.

**12.5 Results of PBT and vPvB assessment**

Not known.

**12.6 Other adverse effects**

Not known.

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**SECTION 13 – DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Dispose of in a manner consistent with Federal, State and Local Regulations.

**Contaminated packaging**

Destroy at an authorized site. Follow general procedures consistent with Federal, State and Local Regulations.

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**SECTION 14 – TRANSPORT INFORMATION****DOT (US)**UN number: Not Assigned      Class: Not Assigned      Packing group: Not Assigned  
Proper shipping name: Not Assigned**IMDG**UN number: Not Assigned      Class: Not Assigned      Packing group: Not Assigned  
Proper shipping name: Not Assigned**IATA**UN number: Not Assigned      Class: Not Assigned      Packing group: Not Assigned  
Proper shipping name: Not Assigned

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**SECTION 15 – USA REGULATORY INFORMATION****SARA 302 Components**

None are listed.

**SARA 313 Components**

None are listed.

**SARA 311/312 Hazards**

None are listed.

**Massachusetts Right To Know Components**

None.

**Pennsylvania Right To Know Components**

None.

**New Jersey Right To Know Components**

None.

**California Prop. 65 Components**

None.

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**SECTION 16 – OTHER INFORMATION****Full text of R and H-Statements referred to under sections 2 and 3**

None.

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MTS-US LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared October 21, 2019