**SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**Product Details**
- **Product Name:** QuickCure Acrylic Liquid
- **Allied Item No.:** 170-10000, -10010, -10015, -10025
- **Chemical Name:** Methyl Methacrylate Monomer

**Company Identification**
Allied High Tech Products, Inc.
2376 East Pacifica Place
Rancho Dominguez, CA 90220
(310) 635-2466

**Contact Point**
Transportation for United States
Chemtrec (800) 424-9300 * (202) 483-7616

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Exposure Limits in Air</th>
<th>Carcin.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Methacrylate &amp;-100%</td>
<td>80-62-6</td>
<td>100 ppm/ 100 ppm/ 410 mg/m³</td>
<td>Health: Y</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>2 m/m³</td>
<td>Carcinogenic: Y</td>
</tr>
<tr>
<td>p-Methoxyphenol</td>
<td>150-76-5</td>
<td>NA</td>
<td>Flammability: N</td>
</tr>
<tr>
<td>2,4-Dimethyl-6-t-Butylphenol</td>
<td>1879-09-0</td>
<td>NA</td>
<td>Reactivity: N</td>
</tr>
<tr>
<td>Octadecyl 3, 5-Di-Tert-Butyl-4-Hydroxycinnamate</td>
<td>2082-79-3</td>
<td>NA</td>
<td>Health: N</td>
</tr>
<tr>
<td>Dimethyl-p-Toluidine</td>
<td>99-97-8</td>
<td>NE</td>
<td>Flammability: N</td>
</tr>
<tr>
<td>Ethylene Glycol Dimethacrylate</td>
<td>97-90-5</td>
<td>NE</td>
<td>Reactivity: N</td>
</tr>
</tbody>
</table>

Ingredients are listed on the TSCA Inventory of Chemical Substances.
Those not identified are non-hazardous.

**HMIS Ratings**
- **Health:** 2
- **Flammability:** 3
- **Reactivity:** 2

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**SECTION 3: HAZARDS IDENTIFICATION**

**Hazard Statement:** Flammable. Hazardous polymerization may occur. Irritant by inhalation, in contact with skin and eye and if swallowed. May cause sensitization by skin contact.

Hydroquinone is listed as a suspect carcinogen by NTP. All data given is for the dry powder, not as a component of a liquid mixture.

**Routes of Entry:** Skin, eyes and/or inhalation.

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**SECTION 4: FIRST AID MEASURES**

**Potential Health Effects**
- **Eye Contact:** Liquid and vapors can cause moderate irritation, tears, blurred vision, swelling and redness.
- **Skin Contact:** May cause irritation. Can cause skin sensitization. For Hydroquinone may cause contact dermatitis and poisoning.
- **Inhalation:** High concentration is irritant to the respiratory tract and may cause dizziness, headache and anesthetic effects.
- **Ingestion:** Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**First Aid Medical Info.**
- **Eye Contact:** Flush with water for 15 minutes. Seek medical attention.
- **Skin Contact:** Wash affected area with soap and water. Wash contaminated clothing before reuse. Discard contaminated shoes. Seek medical attention.
- **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
- **Ingestion:** If swallowed do NOT induce vomiting. Immediately give 2 glasses of water. Seek medical attention.

**Note:** Prolonged and/or repeated exposure may lead to kidney, lung, liver and heart damage.
For Dimethyl-p-Toluidine: Liquid is rapidly absorbed through skin. Absorption of this product into the body causes the formation of methemoglobin, which in sufficient concentration causes cyanosis, symptoms include headache, dizziness, nausea and abdominal pain. In case of blue discoloration (cyanosis) of skin, lips or fingernails give oxygen to breathe. No alcohol or physical exertion. Seek medical attention.

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**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Alcohol foam, carbon dioxide or dry chemical.

**Fire Fighting Instruction:** Cool tank/container with water spray. Fight fire from a distance, heat may rupture containers. Wear self-contained breathing apparatus and protective clothing.

**Special Hazards:** Fine mists are explosive below the flash point. Flammable liquid. Vapor forms explosive mixture with air. Heat can cause polymerization with rapid release of energy which may rupture container explosively. Vapors are heavier than air and may travel to ignition sources and flash back. Sensitive to static discharge.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways or low areas. Soak up with sand, oil dry or other absorbent, non-combustible material. Cleaned-up material is a RCRA Hazardous Waste. Spills on porous surfaces can contaminate the groundwater.
### Section 7: Handling & Storage

**Handling:**
Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling product. Store in a cool, well ventilated place.

**Storage:**
Vapors are flammable and may form polymers in vents or flame arresters, resulting in blockage of vents. Keep container in a cool place. Do NOT expose to direct sunlight. Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Maintain air space inside storage containers. Avoid conditions which remove all oxygen from the store liquid. Inhibitor requires air contact to function. Check inhibitor levels after 6 months and return to original level.

### Section 8: Exposure Control & Personal Protection

**Engineering Measures:**
General and/or local exhaust ventilation that is adequate to keep level of air contaminants below exposure limits.

**Respiratory Protection:**
Use OSHA/NIOSH approved respirator with organic vapor cartridge if level of air contaminants is excessive.

**Protective Gloves:**
Nitrile gloves, impervious apron and boots.

**Eye Protection:**
Safety glasses or splash proof goggles.

**Respiratory Protection:**
Use OSHA/NIOSH approved respirator with organic vapor cartridge if level of air contaminants is excessive.

**Engineering Measures:**
General and/or local exhaust ventilation that is adequate to keep level of air contaminants below exposure limits.

### Section 9: Physical & Chemical Properties

**Appearance:**
Clear, yellowish liquid

**Odor:**
Characteristic odor

**Solubility:**
1.6 wt. 68°F (20°C)

**Boiling Point:**
211°F (99°C)

**Melting Point:**
-54°F (-48°C)

**Flash Point:**
52°F (11°C)

**Vapor Pressure:**
28 mm/Hg @ 68°F (20°C)

**Vapor Density:**
3.5

**Evaporation Rate:**
NA

**Specific Gravity:**
0.935

**Flammable Limits LEL:**
2.1

**Flammable Limits UEL:**
12.0

### Section 10: Stability & Reactivity

**Stability:**
Unstable with heat

**Conditions to Avoid/Incompatibilities:**
Oxidizing, reducing agents and UV light. Contact with peroxides may result in violent reactions. Material is a strong solvent and can soften paints and rubber.

**Decomposition Products:**
Decomposes with heat. Hazardous gases/vapors produced are carbon monoxide, carbon dioxide, nitrogen and smoke.

**Hazardous Polymerization:**
Can occur with excessive heat, storage in absence of inhibitor and inadvertent addition of catalyst.

### Section 11: Toxicological Information

**Teratology (Birth Defect) Info:** Developmental toxicity observed in animal tests but only at levels toxic to the mother.

**Long Term Exposure:**
Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys. Repeated exposure of animals by inhalation to levels at or above the occupational exposure limit produces adverse effects on the nasal epithelium (levels of 100-400 ppm). There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and adequate epidemiology studies in relevant cohorts. Recent studies in animals have shown that high exposures do not produce embryo or foetotoxic nor teratogenic effects in the presence or maternal toxicity. None of these effects are likely to occur in human provided exposure is maintained at or below the occupational exposure limit.

### Section 12: Ecological Information

**Environmental Fate & Distribution:**
High tonnage material produced in wholly contained systems. Liquid with moderate volatility. Sparingly soluble in water. Product has low potential for bioaccumulation. The product is predicted to have high mobility in soil.

**Persistence & Degradation:**
Not readily biodegradable.

**Toxicity:**
Low toxicity to fish. Harmful to aquatic invertebrates. Low toxicity to algae.

**Effects on Effluent Treatment:**
Product is substantially removed in biological treatment processes.

### Section 13: Disposal Information

**Treatment:**
Incineration, storage, transportation and disposal must be in accordance with Federal, State and Local regulations. Do not flush to surface water or sanitary sewer system. Do not incinerate in closed containers. Do not allow material to contaminate ground water systems.

**Reuse of empty drums or containers:**
Not recommended.

### Section 14: Transport Information

**DOT Shipping Name:**
Methyl Methacrylate Monomer, Stabilized

**DOT Hazard Class:**
3

**DOT Id Number:**
UN1247

**DOT Packing Group:**
II

**TGD Shipping Name:**
Methyl Methacrylate Monomer, Stabilized

**TGD Hazard Class:**
3, 9.2

**TGD Id Number:**
UN1247

**TGD Packing Group:**
II

**Risk Statements:**
R36/37/38 - Irritating to eyes, skin and respiratory system.
R43 - May cause sensitization by skin contact.
S20 - When using do not eat or drink.
S29 - Do not empty into drains.
S3 - Keep in a cool place.
S7/9 - Keep container tightly closed in a well ventilated place.
S16 - Keep away from sources of ignition. No smoking.
S37/39 - Wear suitable gloves and eye/face protection.

### Section 15: Regulatory Information

**TSCA:**
All ingredients are TSCA listed.

**CERCLA:**
This product is not classified as hazardous.

**SARA Title III: 311, 312:**
This product is categorized as an Acute Health risk.

**Canada WVRHS:**

**SIN/ECBC:**
All chemical listed.

**EINECS:**
Not applicable.

**REACH Classification:**
Highly flammable and irritant

**Risk Statements:**
R36/37/38 - Irritating to eyes, skin and respiratory system.
R43 - May cause sensitization by skin contact.
S20 - When using do not eat or drink.
S29 - Do not empty into drains.
S37/39 - Wear suitable gloves and eye/face protection.

### Section 16: Other Information

**Legend:**
NAF: No Applicable Information Found
NA: Not Available/Applicable
NE: None Established

**DISCLAIMER:** The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. ALLIED HIGH TECH PRODUCTS, INC. makes no warranty, either express or implied, as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer/distributor shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.

Form Prepared By: Allied High Tech Products, Inc. January 2013