ALLIED
HIGH TECH PRODUCTS, INC.
2376 E. Pacifica Place Rancho Dominguez, CA 90220 (800) 675-1118 www.alliedhightech.com

MATERIAL/CHEMICAL SAFETY DATA SHEET

Section 1: Chemical Product & Company Identification

Product Details

Product Name: QuickCure Acrylic Powder

Allied Item No.: 170-10000, 10005, -10015, -10020, -10030, -10035

Chemical Name: Plasticized Methacrylate Polymer

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

Section 2: Composition/Information on Ingredient

Chemical Name	CAS No.	Exposure Limits in Air ACGIH TLV or TWA	OSHA PEL	Carcin. Y/N
Polymer 60-100%	9011-14-7	10 mg/m3	15 mg/m	
Diethyl Phthalate 0-20%	84-66-2	5 mg/m3	5 mg/m3	

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

HMIS Ratings

Health: 1
Flammability: 1
Reactivity: 0

Section 3: Hazards Identification

Hazard Statement: None

Section 4: First Aid Measures

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	May cause irritation, tearing, redness, drying and/or swelling.	Flush with water for 15 minutes, including under eyelids. Seek medical attention if discomfort persists.
Skin Contact:	May cause redness, burning, drying, cracking and/or dermatitis.	Wash with soap and water. Seek medical attention if discomfort persists.
Inhalation:	May cause irritation, or breathing difficulties.	Remove to fresh air. Seek medical attention immediately.
Ingestion:	Large amounts may cause irritation of the digestive tract, nausea, head ache, vomiting, or diarrhea.	Rinse mouth out with water. Drink plenty of milk or water immediately. Do not induce vomiting. Get medical attention immediately

Note:

Section 5: Fire Fighting Measures

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

Fire Fighting Instruction: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source. Wear self-contained breathing apparatus and protective clothing.

Special Hazards: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

Section 6: Accidental Release Measures

Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.

Section 7: Handling & Storage

Handling: Use in well ventilated areas. Observe good housekeeping practices.

Storage: Store in cool dry place. Keep container closed to prevent water absorption and contamination.

Section 8: Exposure Control & Personal Protection

Engineering Measures: Use good, local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

Respiratory Protection: Use type for Particulates Not Otherwise Classified, if needed.

Protective Gloves: Impervious, nitrile, if hot plastic is handled.

Eye Protection: Safety glasses or chemical splash goggles.

Other: Eyewash, safety shower and impervious clothing are recommended.

Section 9: Physical & Chemical Properties

Appearance:	Fine white powder
Odor:	Faint odor in bulk
Solubility:	Insoluble
Boiling Point:	NA
Melting Point:	NA
Flash Point:	580°F (304°C)
Vapor Pressure:	NA
Vapor Density:	NA
Evaporation Rate:	3.0
Specific Gravity:	1.25
Flammable Limits LEL:	NA
Flammable Limits UEL:	NA

Section 10: Stability & Reactivity

Conditions to Avoid/Incompatibles: Excessive heat. Strong oxidizing agents.

Decomposition Products: Methacrylate Monomer and Oxides of Carbon when burned.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Target Organs

For Polymer: None listed
For Diethyl Phthalate: None listed
For Trade Secret: None listed
For Decomposition Products (Methyl Methacrylate): Nose, liver and kidneys

Section 12: Ecological Information

Aquatic Toxicity:
For Polymer: None listed
For Diethyl Phthalate: 10-100µL/96H / 53-78 mg/L/96H
For Decomposition Product (Methyl Methacrylate): 100-1000 ppm

Section 13: Disposal Information

This product contains a Phthalate (U-069), incinerate in accordance with Federal, State and Local regulations.
Reuse of empty drums or containers is not recommended.

Section 14: Transport Information

DOT Shipping Name: Polymer, NOI

National Motor Freight Classification NMFC: 46030

Export Schedule B Number: 3907.91.000

Section 15: Regulatory Information

Canadian WHMIS: This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

Risk Statements:
R36/37/38 - Irritating to eyes and respiratory system, and skin.

Safety Statements:
S7/8 Keep container tightly closed and dry.
S20-21 When using do not eat, drink or smoke.
S37/39 Wear suitable gloves and eye/face protection.

Section 16: Other Information

Legend

NAIF: 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 2011

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MATERIAL/CHEMICAL SAFETY DATA SHEET

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

Section 2: Composition/Information on Ingredient

Chemical Name	CAS No.	Exposure Limits in Air ACGIH TLV or TWA	OSHA PEL	Carcin. Y/N
Methyl Methacrylate ~100%	80-62-6	100 ppm/ 410 mg/m3	100 ppm/ 410 mg/m3	
Standard grades contain inhibitors from among the following (4-1000 ppm)				
Hydroquinone	123-31-9	2 m/m3	2 m/m3	N
p-Methoxyphenol	150-76-5	NA	NA	
2,4-Dimethyl-6-t-Butylphenol	1879-09-0	NA	NA	
Octadecyl 3, 5-Di-Tert-Butyl-4-Hydroxycinnamate	2082-79-3	NA	NA	
Dimethyl-p-Toluidine	99-97-8	NE	NE	N
Ethylene Glycol Dimethacrylate	97-90-5	NE	NE	N

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

HMIS Ratings
Health: 2
Flammability: 3
Reactivity: 2

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.

Section 4: First Aid Measures

	Potential Health Effects	First Aid/ Medical Info.
Eye Contact:	Liquid and vapors can cause moderate irritation, tears, blurred vision, swelling and redness.	Flush with water for 15 minutes. Seek medical attention.
Skin Contact:	May cause irritation. Can cause skin sensitization. For Hydroquinone may cause contact dermatitis and poisoning.	Wash affected area with soap and water. Wash contaminated clothing before reuse. Discard contaminated shoes. Seek medical attention.
Inhalation:	High concentration is irritant to the respiratory tract and may cause dizziness, head ache and anesthetic effects.	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.	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.

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.

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. Close container after each use. Ground container when pouring. Keep away from heat, direct sunlight, sparks and flames. Observe good housekeeping practices.

Storage: Vapors are uninhibited 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.

Other: Eyewash and safety shower are recommended.

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/Incompatibles: 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 level 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 feototoxic 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 bioaccummulation. 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 is 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 Class: 3.2 (9.2)

TGD Id Number: UN1247

TGD Packing Group: II

**If material is shipped in quantities greater than 1000 lb. per container, the proper shipping name is RQ Methyl Methacrylate Monomer, Stabilized.

Section 15: Regulatory Information

Toxic Substance Control Act 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 WHMIS Hazard Class: B2: flammable liquid, D-2B: Toxic, F: Dangerously reactive material.
EINECS: All chemical listed
EEC Classification: Highly flammable and irritant
Risk Statements:
R36/37/38 - Irritating to eyes, skin and respiratory system.
R43 May cause sensitization by skin contact.
Safety Statements:
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.
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

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NA: Not Available/Applicable
NE: None Established

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