



# MATERIAL SAFETY DATA

Chemtrec 24-Hour Emergency Telephone

Domestic North America (800) 424-9300

International (800) 527-3887

*This MSDS complies with 29 CFR 1910.1200 (Hazard Communications)*

## 1. Product and Supplier Identification

**Product Name:** Fast Speed Cure Additive  
**Product Number:** 0639Q, 0639P, 0639G  
**Date of Prep:** 10-27-2010  
**Product Type:** Resin Solution  
**Supplier:** Fiberlay Inc.  
 24 S. Idaho S.  
 Seattle, Wa 98134  
 (206)782-0660

## 2. Composition/Information On Ingredients

### Exposure Limit:

CAS #	CHEMICAL NAME	% By Wt	OSHA PEL/TWA	ACGIH TLV/TWA	LD50 ORAL (rat)	LD50 DERMAL (rabbit)
002044-64-6	* N,N-Dimethylacetoacetamide	1-5	NE	NE	>5000Mg/Kg	>5000Mg/Kg

\*On TCA Inventory Mild eye irritant; non-irritant for skin

CAS #	CHEMICAL NAME	% By Wt	OSHA PEL/TWA	ACGIH TLV/TWA	LD50 ORAL (rat)	LD50 DERMAL (rabbit)	LCLo (rat)
00100-42-5	Styrene Monomer	50.0450	100 ppm (8 hr)	20ppm 85Mg/Cu.M	4.37 G/Kg	>5 G/Kg	5000 ppm/ 8 hr
			OSHA PEL/ Ceiling*	ACGIH TE./STEL			
			600 ppm( 5min in any 3 hrs)	40 ppm 170Mg/CuM	50 ppm (215 Mg/M <sup>3</sup> )		
			OSHA PEL/STEL** 200 ppm (15 min TWA				

\*Acceptable maximum peak \*\*Acceptable concentration

Other: IARC – Group 2B

CAS No.	Chemical Name	% (by weight)	OSHA PEL/TWA	ACGIH TLV/TWA
Proprietary	Unsaturated Polyester Resin*	40-50	NE	NE

- On TSCA Inventory and Canadian DSL

### 3. Hazards Identification

#### Overview:

- This substance is classified as a hazardous air pollutant
- Primary routes of entry are Eye, Skin, Inhalation, ingestion

#### Methanol:

- If taken internally, Methyl Alcohol may cause methanol poisoning. Symptoms include:
  - ✓ Severe headache
  - ✓ Vomiting
  - ✓ Unconsciousness
  - ✓ Blurring or loss of vision
  - ✓ Damage to liver, heart and kidneys

#### Potential Health Effects:

##### Eye: Irritation

- Tearing
- Redness
- discomfort

##### Skin: Irritation

- Defatting of skin which may lead to dermatitis

##### Ingestion: Irritation

- Mouth
- Throat
- Esophagus
- Stomach
- Nausea & vomiting
- diarrhea

##### Inhalation: Irritation to nose and throat

- Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression
  - ✓ Dizziness
  - ✓ Headache
  - ✓ Nausea
  - ✓ Eventual loss of consciousness
  - ✓ Liver and kidney damage

#### Medical Conditions that may be aggravated by exposure to this product:

Preexisting eye, skin, liver, kidney and respiratory disorders

## 4. First Aid Measures

### Eyes:

- Flush immediately with plenty of water for at least 15 minutes
- Get medical attention

### Skin:

- Wash thoroughly with soap and water

### Ingestion:

- .Get medical attention immediately

### Inhalation:

- Remove to fresh air

## 5. Fire Fighting Measures

**Flash Point:** 88°F for Flash points 73°-100°F

**Flammable Limits - LEL:** 1.1% by volume

### Fire and Explosion Hazards:

- If polymerization takes place in a container, there is possibility of violent rupture of the container
- Vapors are uninhibited and may form polymers in vents or flume arrestors of storage tanks resulting in stoppage of vents; vapors may cause flash fire
- Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame
- Never use welding or cutting torch on or near drum (even if empty / with residue) because product can ignite explosively.

### Extinguishing Media:

#### Fire Fighting Instructions:

- Full protective equipment including self-contained breathing apparatus should be used
- Water spray may be ineffective
- If water is used, fog nozzles are preferable
- Water may be used to cool closed containers to prevent pressure build-up or explosion when exposed to extreme heat

## 6. Accidental Release Measures

- Remove all sources of ignition (flames, hot surfaces, electrical or frictional sparks)
- Avoid breathing vapors
- Ventilate area
- Remove with inert absorbent and non-sparking tools

## 7. Handling and Storage

### STORAGE:

- Do not store above 100°F
- Store large quantities in buildings designed to comply with OSHA 1910.106
- Keep away from heat, sparks and flame
- Keep containers closed when not in use and upright to prevent leakage

### HANDLING:

- Containers should be grounded when pouring
- Do not take internally
- Wash hands after using and before smoking or eating
- Emptied containers may retain hazardous residue explosive vapors
- Do not cut, puncture or weld on or near emptied containers
- Follow all hazardous precautions given in this data sheet until container is thoroughly cleaned or destroyed
- If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels
- Any mixture of components will have hazards of all components
- Avoid buildup of spray dust or overspray in booths or ducts

## 8. Exposure Controls / Personal Protection

### Ventilation:

- Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas
- Remove decomposition product during welding and flame cutting on surfaces coated with this product.
- In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits.
- Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.
- Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (non-explosion-proof motors, etc.) should be eliminated

### Eye Protection:

- Do not get in eyes
- Use safety eyewear with splash guards or side shields, chemical goggles, face shields

### Skin Protection:

- Avoid contact with skin
- Use solvent Impermeable gloves to avoid contact with the product
- Use protective clothing
- Prevent contact with contaminated clothing
- Wash contaminated clothing, including shoes, before reuse.

**Respiratory Protection:**

- Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product
- Wear an appropriate properly fitted respirator (NIOSH / MSHA approved) during application and other use of this product until vapors, mists, and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits.
- Follow respirator manufacturer's directions for respirator use.
- Observe OSHA Standard 29CFR 1910.134.

**Exposure Guidelines:**

- This product contains one or more reported carcinogens or suspected carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate subsection under "Other Limits"

Styrene Monomer:

- ✓ The international Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system.
- ✓ The Styrene Information and Research Center does not agree with the reclassification and has published the following statement: *"Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."*
- ✓ An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is a carcinogenic.
- ✓ Lung effects have been observed in the mouse following repeated exposure to styrene.

<b>9. Physical and Chemical Properties</b>
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<b>Boiling Point:</b>	293°F	<b>Physical Form</b>	Liquid
<b>Specific Gravity</b>	1.059	<b>Color</b>	Translucent
<b>Odor:</b>	Moderate aromatic	<b>Wt. per gallon</b>	8.8109 lb/gal
<b>Vapor Pressure:</b>	4.5 mmHg @68°F	<b>% HAP by weight</b>	50.040
<b>Solubility in Water:</b>	Insoluble	<b>Volatile Organic Cpds</b>	4.54 lb/gal
		<b>% Monomer by Weight</b>	50.04

## 10. Stability and Reactivity

**Stability:** Stable

**Conditions to Avoid:**

- Avoid elevated temperatures
- Improper addition of promoter and/or catalyst
- Avoid direct contact of MEKP catalyst with accelerator
- If an accelerator such as vobalat drier is to be added, mix this accelerator with base material before adding catalyst

**Incompatibility (Materials to Avoid):**

- Oxidizers
- Reducing agents
- peroxides
- strong acids
- bases
- UV light
- Any source of free radicals and mild steel

**Hazardous Polymerization:** Can occur

**Hazardous Decomposition or By-Products**

- Thermal decomposition or combustion can produce fumes containing:
  - ✓ Organic acids
  - ✓ Carbon dioxide
  - ✓ Carbon monoxide

## 11. Toxicological Information

SARA 313 Information:

This product contains the following substances subject to the reporting requirements of Section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Styrene Monomer:
  - ✓ CAS# 000100-42-5
  - ✓ % by weight: 50.0450

## 12. Ecological Information

The VOC quantity listed in Section 9 is a total theoretical loss value. Under typical conditions only half this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment / techniques, catalyzation, gel and cure rates, etc. If precise values are needed, it is suggested that onsite testing be conducted.

### 13. Disposal Considerations

**Waste Disposal Method:**

- Dispose of in accordance with local, state, and federal regulations.
- Do not Incinerate in closed containers
- Incinerate in approved facility

### 14. Transport Information

**Freight Classification:**

- **NMFC:** 46030  
**DOT Shipping name:** Resin Solution
- **LTL Class:** 55
- **UN1866, PG III**
- **OSHA Flammability Classification:** Class IC
- **DOT Flammability Classification:** Flammable Liquid
- **Lower Flammable Limit in Air:** 1.1

### 15. Regulatory Information

The percent by weight composition data given in Section II is not a specification , but is based on 'target' formula values for each ingredient in the product. The data is presented as a range for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch considerations will vary within limits consistent with separately established product specifications.

### 16. Other Information

**HMIS Hazard Classification**

**Health: 2      Flammability: 3      Reactivity: 2      Protection:**

**Preparation Date:** 10-27-2010

**Prepared by:** Fiberlay Inc

**Comments:** This Material Safety Data Sheet was prepared using information provided by Fiberlay Inc, and CCINFO

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**Revisions:** None