

## Material Safety Data Sheet

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Veriflex® Part A (resin)			Emergency Telephone 1 800 633-8253		
Manufacturer's Name CRG Industries, LLC			Supplier's Name CRG Industries, LLC		
Street Address 2750 Indian Ripple Rd			Street Address 2750 Indian Ripple Rd		
City Dayton	State OH	Zip 45440	City Dayton	State OH	Zip 45440
Date MSDS Prepared September 21, 2006					

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components (specific chemical identity, common name)	% (optional)	CAS Number	LD50 of Ingredient (specify species and route)	LD50 of Ingredient (specify species)
Styrene monomer, stabilized	~50	0100 42 5	NE	NE
Styrene block copolymer	<50	9003 55 8	NE	NE
Proprietary mixture	<20	NA	NE	NE
Health: 2				
Flammability: 3				
Reactivity: 3				

### SECTION 3 — HEALTH HAZARD DATA

Route of Entry	Skin	Inhalation	Ingestion
	<b>X</b>	<b>X</b>	<b>X</b>
Potential Health Effects (acute and chronic)			
<u>Acute:</u> Depression of central nervous system exhibited by drowsiness, unsteady gait, weakness and loss of coordination. Skin and eye irritation.			
<u>Chronic:</u> Contains components that have been reported to possibly be carcinogenic and mutagenic based on their ACGIH, NTP, IARC, OSHA, or EPA classifications.			

### SECTION 4 — FIRST AID MEASURES

Skin Contact: Wash affected area immediately with soap and copious amounts of water. Monitor exposed person for any signs of central nervous system depression.
Eye Contact: Immediately flush eyes by gently flooding with running water for at least 15 minutes.
Inhalation: Remove the exposed person to fresh air; restore and/or support breathing as needed. Have qualified medical personnel administer oxygen if required.
Ingestion: If swallowed, wash out mouth immediately with water provided person is conscious. Contact a physician immediately. Slowly give the exposed person 4 to 8 glasses of milk or water to dilute the material, but do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing.

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**SECTION 5 — FIRE FIGHTING MEASURES**

Flashpoint (°C) and Method ~31	Upper Flammable Limit (% by volume) NE	Lower Flammable Limit (% by volume) NE
Extinguishing Media Use foam, dry chemical or carbon dioxide. Use water spray to cool fire-exposed containers, to dispense the vapor and to protect personnel who are attempting to stop a resin leak. In the case of large fires, the fire fighting should be done from a distance or from a remote, explosion proof position.		
Special Fire Fighting Procedures Wear a self-contained breathing apparatus (SCBA) with a full face piece operated in the pressure demand or positive pressure mode.		
Hazardous Combustion Products Vapor is heavier than air and may travel a considerable distance to a low-lying source of ignitions and flash back to its origin. Violent polymerization inside heated containers can occur at elevated temperature; explosive rupturing of these containers is possible. Vapor can form polymers that will block the vents of flame arresters of storage tanks.		

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Leak and Spill Procedures Evacuate unnecessary personnel. Eliminate all sources of ignition immediately and provide adequate ventilation.
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**SECTION 7 — HANDLING AND STORAGE**

Handling Procedures and Equipment Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage Requirements Refrigerate. Store in tightly closed containers. Keep away from sources of ignition and strong oxidizers.

**SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION**

Exposure Limits	ACGIH TLV	OSHA PEL	OTHER (specify)			
	50 ppm	100 ppm				
Specific Engineering Controls (such as ventilation, enclosed process) Use only in fume hood or with mechanical exhaust						
Personal Protective Equipment	Gloves	Respirator	Eye	Footwear	Clothing	Other
	X		X			X
If checked, specify type Gloves: compatible, chemical-resistant Eye: chemical safety goggles						
Other: Safety shower and eye bath						

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Odor and Appearance Sweet, aromatic odor at low concentrations, unpleasant odor at high concentrations	Boiling Point (°C) ~100-145	Melting Point (°C) -30.6	Specific Gravity ~880-900g/m
Solubility in Water Slight	Vapor Density (air=1) >1	Vapor Pressure (mmHg) ~5 at 20°C	Evaporation Rate (ether=1) NE

**SECTION 10 — STABILITY AND REACTIVITY**

Stability	Unstable		Conditions to Avoid
	Stable	X	Stable in closed container under refrigeration
Hazardous Polymerization	May Occur	X	Conditions to Avoid Exothermic polymerization can occur at room temperature conditions. Hazardous polymerization can occur if the material is exposed to elevated heat, excessive light, or catalytic oxidative materials. Curing large quantities of resin at temperatures above 60 °C or without a method of maintaining resin temperature will result in a rapid increase in the material's polymerization rate and a dangerous increase in the heat output – resin could possibly reach boiling or spontaneous ignition temperatures, causing hazardous conditions.
	Will Not Occur		
Incompatibility Strong acids, oxidizing agents (such as peroxides), heavy metal salts, zinc, copper or copper alloys			
Hazardous Decomposition Products NE			

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure Depression of central nervous system exhibited by drowsiness, unsteady gait, weakness and loss of coordination. Skin and eye irritation.	
Effects of Chronic Exposure Contains components that have been reported to possibly be carcinogenic and mutagenic based on their ACGIH, NTP, IARC, OSHA, or EPA classifications.	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity - IARC	Carcinogenicity - ACGIH
Reproductive toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Synergistic Products/Effects	

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**SECTION 12 — ECOLOGICAL INFORMATION**

Marine pollutant

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local government environmental regulations.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Information

Styrene monomer, stabilized; Flammable Liquid, UN2055, 3, PGIII

IATA

DOT

Packaging exception 49CFR 173.118

**SECTION 15 — OTHER INFORMATION**

This bulletin cannot cover all possible situations that the user may experience during processing. Additional precautions may be necessary.

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