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## Material Safety Data Sheet

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**Manufactured by:** Arjay Technologies, Inc., 2020 Wild Acres Road, Largo, FL 33771

**Number:** 45.2

**EMERGENCY CONTACT:** CHEMTREC (800) 424-9300

**Information Contact:** (727) 538-0600

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### SECTION I - Product Identification

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**Product Name:** J CORE

**Product Numbers:** 4501, 4502, 4502L, 4601

**Product Class:** Unsaturated Polyester Resin

**Shipping Description:** RESIN SOLUTION, UN1866, CLASS 3, PG III

MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

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## SECTION II - Hazardous Ingredients

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COMPONENT	%WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M3	PPM	
STYRENE*	28 - 34	100-42-5	TWA	550	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

\* SARA SECTION 313 CHEMICAL

## SECTION III - Physical Data

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Boiling Point (Styrene)	293 deg F
Specific Gravity (H2O = 1.0)	0.6
Melting Point	N/A
Percent Volatile by Volume	19-23
Vapor Pressure (Styrene)	3.56 MM Hg
Solubility in H2O	N/A
Vapor Density (Air = 1)	2.98

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## SECTION IV - Fire and Explosion Hazard Data

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Flash Point (Styrene)	90 deg F PENSKEY-MARTEN CLOSED CUP
Flammable Limits (Percent by Volume)	LEL : 1.10%
	UEL : 6.10%

**Extinguishing Media:**

Use foam, carbon dioxide or chemical fire fighting apparatus.

**Special Fire Fighting Procedures:**

Cool tanks and drums with water. Firefighter should wear self contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards:**

High temperature exposure for extended period of time will result in spontaneous uncontrolled exothermic polymerization.

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**SECTION V - Reactivity Data**

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Stability: Stable under normal conditions. Avoid exposure to temperatures above 100 deg F or 38 deg C.

Incompatibility: Avoid contact with strong mineral acids, peroxides, oxidizing agents, and polymerizati

Hazardous Polymerization: Can occur

Hazardous Decomposition Products: Thermal decomposition may yield carbon monoxide/dioxide, low molecular weight hydrocarbons, and organic acids.

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**SECTION VI - Health Hazards**

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MAJOR EXPOSURE HAZARD: INHALATION, SKIN CONTACT, EYE CONTACT

**Effects of overexposure:****Eye Contact:****Skin Contact:****Inhalation:**

Severe irritation, redness, tearing, blurred  
Prolonged or repeated exposure can cause moderate irritation, de-fatting, dermatitis, Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, nausea, and headache. High concentrations may cause (central nervous system depression). Can cause irritation, nausea, vomiting and diarrhea. A small amount into lungs can cause chemical pneumonitis, w

Chronic exposure may cause damage to the central nervous system, respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen, and kidneys.

Other health effects: IARC (International Agency for Research on Cancer) has reclassified styrene from a Group 3 substance to a Group 2B substance. This is not based on any significant new evidence that styrene might be carcinogenic, but rather on a broadening of the definition for Group 2B classification.

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**SECTION VII - Emergency and First Aid Procedures**

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**Inhalation:** Remove from exposure. If breathing is stoppe  
artificial respiration or oxygen as indicate  
aid; if symptoms persist, consult a physicia

**Skin Contact:** Remove contaminated clothing and wash skin t  
soap and water. If irritation continues, see

**Eye Contact:** Flush with large amounts of water for at lea  
Call a physician.

**Ingestion:** Do not induce vomiting. Call a physician.

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#### SECTION VIII - Special Protection Information

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**Skin Contact:** Polyvinyl alcohol gloves and polyethylene ga  
recommended.

**Eye Contact:** OSHA compliant goggles or face shields recom

**Ventilation:** Local exhaust ventilation should be used to  
emission of air contaminates. General diluti  
may assist with the reduction of contaminate  
concentrations.

**Other Equipment:** Emergency eye wash stations should be locate

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#### SECTION IX - Special Precautions in Storage and Handling

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Avoid prolonged or repeated contact with skin. Avoid eye contact. Store in a cool dr  
away from oxidizers. Do not store in direct sunlight. Work with adequate general and  
local exhaust ventilation to minimize exposure to vapors.

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#### SECTION X - Regulatory Status

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TSCA STATUS: This substance or mixture appears on the TOXIC SUBSTANCES  
CONTROL ACT INVENTORY. SARA Hazard categories (section 311 and section 312):  
Reactivity, Immediate Health, Delayed Health, Fire

Hazardous Material Identification System

Health: 2  
Flammability: 3  
Reactivity: 2

NFPA Rating (Nat'l Fire Protection Association)

Health: 2  
Flammability: 3  
Reactivity: 2

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SECTION XI - DISCLAIMER

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