
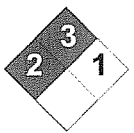



<p>WHMIS (Canada)</p>  <p>B-2 D-2A D-2B</p>	<p>NFPA (USA)</p> <p>Fire</p>  <p>Health      Reactivity</p> <p>Specific hazard</p>	<p>HMIS (USA)</p> <table border="1"> <tr> <td>Health hazards</td> <td>*</td> <td>2</td> </tr> <tr> <td>Flammability</td> <td></td> <td>3</td> </tr> <tr> <td>Physical hazards</td> <td></td> <td>1</td> </tr> <tr> <td>Personal protection</td> <td></td> <td>X</td> </tr> </table>	Health hazards	*	2	Flammability		3	Physical hazards		1	Personal protection		X	<p>Protective clothing</p> 
Health hazards	*	2													
Flammability		3													
Physical hazards		1													
Personal protection		X													

<b>Section 1. Chemical product and company identification</b>	
Trade name	<b>A540-YLA-25</b>
Product type	Polyester Resin Solution
Chemical family	Aromatic.
Material uses	Used in the manufacture of thermoset plastic parts.
Manufacturer	<p>AOC, LLC            950 Highway 57 East            Collierville, TN U.S.A. 38017            Website: www.aoc-resins.com            Phone Number: (901) 854-2800            8am-5pm (Central Time) Mon-Fri</p>
In case of emergency	<p>CHEMTREC (US): 24 hours/7 days (800) 424-9300            CANUTEC (Canada): 24 hours/7 days (613) 996-6666</p>

<b>Section 2. Hazards identification</b>	
OSHA status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	Eye contact, Skin contact, Inhalation, Ingestion
Potential acute health effects	<p><b>Eyes:</b> Severe eye irritant which may result in redness, burning, tearing and blurred vision.</p> <p><b>Skin:</b> Skin irritant which may result in burning sensation. Repeated or prolonged skin contact may cause dermatitis.</p> <p><b>Ingestion:</b> Ingestion may result in mouth, throat and gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p><b>Inhalation:</b> Inhalation of spray mist or liquid vapors may cause upper respiratory irritation and possible central nervous system effects including headaches, nausea, vomiting, dizziness, drowsiness, loss of coordination, impaired judgement and general weakness.</p>
Potential chronic health effects	<p><b>CARCINOGENIC EFFECTS:</b></p> <p><b>Styrene:</b>            Classified A4 (not classifiable for human or animal) by ACGIH.            Classified 2B (possible for human) by IARC.            Classified as "reasonably anticipated to be a human carcinogen" by NTP.            An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since 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 carcinogenic to humans.</p> <p><b>Alpha Methyl Styrene :</b>            Classified A3 (proven for animal) by ACGIH.</p> <p><b>MUTAGENIC or TERATOGENIC EFFECTS:</b> No known effect according to our database.</p>

**Section 3. Composition/information on ingredients**

Name	CAS #	% by weight
1) Styrene	100-42-5	33.6
2) Alpha Methyl Styrene	98-83-9	1 - 5

**Section 4. First aid measures**

Eye contact	Flush with a continuous flow of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. Seek medical attention.
Skin contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
Inhalation	Move the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Seek immediate medical attention.

**Section 5. Fire-fighting measures**

The product is:	Flammable liquid, Class IC.
Auto-ignition temperature	914°F(490°C) Styrene
Flash point	87.6°F (31°C) Styrene
Flammable limits	<b>Lower:</b> 0.9% <b>Upper:</b> 6.8% (Styrene)
Products of combustion	May produce carbon monoxide, carbon dioxide, and irritating or toxic vapors, gases or particulate.
Fire hazard	Flammable in the presence of open flames, sparks, or heat.
Explosion hazard	Can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Material may polymerize when container is exposed to heat (fire) and polymerization will increase pressure in a closed container which may cause the container to rupture violently.
Fire-fighting media and instructions	SMALL FIRE: Use carbon dioxide, foam, dry chemical or water fog to extinguish. LARGE FIRE: Evacuate surrounding areas. Use carbon dioxide, foam, dry chemical or water fog to extinguish. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Prevent run off to sewers or other water ways.

**Section 6. Accidental release measures**

Small spill	Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	Stop leak if without risk. Eliminate all ignition sources. Contain with an inert material, recover as much as possible and place the remainder in an appropriate waste disposal container. Warn unauthorized personnel to move away. Prevent entry into sewers or confined areas.

**Section 7. Handling and storage**

Handling	WARNING! Use only in well-ventilated areas. Store away from direct sunlight. Avoid inhalation and contact with eyes, skin, and clothing. Wear appropriate personal protective equipment for your task. Ground and bond all containers when transferring the material. Empty containers may retain product and product vapor. Do not expose to heat, flame, sparks or other ignition sources such as cutting, welding, drilling, grinding or static electricity. Do not pressurize. Provide adequate safety showers and eyewashes in the area of use.
Storage	Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Containers should be grounded.

**Section 8. Exposure controls/personal protection**

Exposure limits	<p>Styrene</p> <p>ACGIH TLV (United States, 3/2012). Absorbed through skin. TWA: 20 ppm 8 hour(s). TWA: 85 mg/m<sup>3</sup> 8 hour(s). STEL: 40 ppm 15 minute(s). STEL: 170 mg/m<sup>3</sup> 15 minute(s).</p> <p>OSHA PEL Z2 (United States, 11/2006). TWA: 100 ppm 8 hour(s). AMP: 600 ppm 5 minute(s). CEIL: 200 ppm</p> <p>NIOSH REL (United States, 6/2009). TWA: 50 ppm 10 hour(s). TWA: 215 mg/m<sup>3</sup> 10 hour(s). STEL: 100 ppm 15 minute(s). STEL: 425 mg/m<sup>3</sup> 15 minute(s).</p> <p>Alpha Methyl Styrene</p> <p>ACGIH TLV (United States, 3/2012). TWA: 10 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 50 ppm 10 hour(s). TWA: 240 mg/m<sup>3</sup> 10 hour(s). STEL: 100 ppm 15 minute(s). STEL: 485 mg/m<sup>3</sup> 15 minute(s).</p> <p>OSHA PEL (United States, 6/2010). CEIL: 100 ppm CEIL: 480 mg/m<sup>3</sup></p>
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide adequate safety showers and eyewashes in the area of use.
Personal protection	<p>Personal protective equipment may vary depending on the job being performed.</p> <p><b>Eye/face:</b> Wear eye protection such as safety glasses with side shields, splash goggles or face shield with safety glasses.</p> <p><b>Skin:</b> Avoid skin contact. Impervious gloves should be worn. Other items may include long sleeves, lab coats, or impervious jackets.</p> <p><b>Respiratory:</b> Determine if airborne concentrations are below the recommended exposure limits in accordance your company's PPE program and regulatory requirements. If they are not, select a NIOSH-approved respirator that provides adequate protection from the concentration levels encountered. Air-purifying respirators are generally adequate for organic vapors. Use positive pressure, supplied-air respirators if there is potential for an uncontrolled release, if exposure levels are unknown, or under circumstances where air-purifying respirators may not provide adequate protection. Reference OSHA 29 CFR 1910.134.</p>
Personal protection in case of a large spill	Chemical resistant gloves, full protective suit, and boots. Respiratory protection in accordance with OSHA regulation 29 CFR 1910.134. A self-contained breathing apparatus should be used to avoid inhalation of the product vapors.

**Section 9. Physical and chemical properties**

Physical state	Liquid.
Color	Clear.
Odor	Aromatic.
Molecular weight (g/mol)	1000 to 15000
Boiling point	293°F(145°C) Styrene
Melting point	Not available.
pH (1% soln/water)	Not applicable.
Vapor pressure	4.5 mm Hg@ 68°F (20°C) Styrene
Vapor density	3.59 Styrene (Air = 1)
Specific gravity	1.1 (Water = 1)
Partition coefficient: n-octanol/water	Not available.
Evaporation rate	Not available.
Odor threshold	0.14 ppm Styrene
Solubility in water	Slight.
Dispersibility properties	Not dispersed in water.

**Section 10. Stability and reactivity**

Stability	This product is normally stable, but can become unstable at elevated temperatures.
Instability temperature	>170°F (77°C)
Conditions of instability	Heat.
Incompatibility with various substances	Polymerizes in the presence of organic peroxides, oxidizing materials, or heat.
Corrosivity	Our database contains no additional remark on the corrosivity of this product

**Section 11. Toxicological information**

Toxicity to animals	Name	Result	Species	Dose	Exposure
	Styrene	LD50 Intraperitoneal	Rat	898 mg/kg	-
		LD50 Oral	Rat	5000 mg/kg	-
		LD50 Oral	Rat	2650 mg/kg	-
		TDLo Dermal	Rat	26.4 mg/kg	-
		LC50 Inhalation	Rat	11800 mg/m3	4 hours
		Vapor			
	Alpha Methyl Styrene	LC50 Inhalation Gas.	Rat	2770 ppm	4 hours
		LD50 Oral	Rat	4900 mg/kg	-
		LDLo Dermal	Rabbit	16 mL/kg	-

**Special remarks on toxicity to animals** Lung effects that have been observed in mouse studies have been shown in some studies to be the result of mouse specific enzymes (not in humans) that enable the mechanism for producing cancer in mice.

**Special remarks on chronic effects on humans** A study of long term effects of workers exposed to styrene levels in the range of 25-35 ppm, 8 hour TWA, indicated a possible mild hearing loss.

**Section 11. Toxicological information**

Special remarks on other toxic effects on humans      No additional remark.


**Section 12. Ecological information**

Ecotoxicity      Toxic to aquatic organisms. Should not be released to sewage system or other bodies of water at concentrations above limits established in regulations or permits.

**Section 13. Disposal considerations**

Waste disposal      Recycle to process, if possible. Consult your local or regional authorities. Ignitable characteristic.

**Section 14. Transport information**

DOT	UN1866; Resin Solution; 3; III.	Labels 
TDG	UN1866; Resin Solution; 3; III.	
IATA/IMDG	UN1866; Resin Solution; 3; III	
Additional information	US regulations require the reporting of spills when the amount exceeds the Reportable Quantity (RQ) for specific components of this material. See CERCLA in Section 15, Regulatory Information, for the Reportable Quantities.	

**Section 15. Regulatory information**

Other regulations      **This section does not reference all applicable regulatory compliance lists.**

**TSCA:** All ingredients are listed or compliant with TSCA.

**DSL:** All ingredients are listed or compliant with the NSNR.

**Proposition 65 Warning:** This product contains a chemical(s) known to the State of California to cause cancer, birth defects and/or reproductive harm.

**SARA 302 component(s):** None.

**SARA 313 component(s):** Styrene.

**CERCLA(RQ):** Styrene - 1000 lbs. (453.6 kg)

**Section 16. Other information**

Prepared by      AOC, LLC - Corporate Regulatory Affairs.      TN

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