

MSDS no. 10417V7

WHMIS (Canada)



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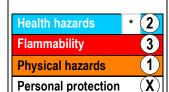
NFPA (USA) Fire



Specific hazard

Health

Reactivity



HMIS (USA) **Protective clothing**







Section 1. Chemical product and company identification				
Trade name	H800-ZPA-20			
Product type	Polyester Resin Solution (TAP Bond Coat Laminating Polyester Resin)			
Chemical family	Aromatic.			
Material uses	Used in the manufacture of thermoset plastic parts.			
Manufacturer 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		In case of emergency CHEMTREC (US): 24 hours/7 days (800) 424-9300 CANUTEC (Canada): 24 hours/7 days (613) 996-6666		

Section 2. Hazards identification			
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	Eyes: Severe eye irritant which may result in redness, burning, tearing and blurred vision. Skin: Skin irritant which may result in burning sensation. Repeated or prolonged skin contact may cause dermatitis. Ingestion: Ingestion may result in mouth, throat and gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation: 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.		
Potential chronic health effects			

Section 3. Composition/information on ingredients CAS# Name % by weight 100-42-5 1) Styrene 34.0 2) Methanol 67-56-1 0.2 0.1 - 1 3) Cobalt Compounds Mixture

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Section 4. First aid	d 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	Lower: 0.9% Upper: 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 ex 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 of 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. Note: If product contains metal compounds (Section III), avoid dust from dried product or grinding of articles made from this material.		
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.		

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Section 8. Exposure controls/personal protection

•	- Personal protection			
Exposure limits	Styrene	ACGIH TLV (United States, 1/2009). Skin TWA: 20 ppm 8 hour(s). TWA: 85 mg/m³ 8 hour(s). STEL: 40 ppm 15 minute(s). STEL: 170 mg/m³ 15 minute(s). OSHA PEL Z2 (United States, 11/2006). TWA: 100 ppm 8 hour(s). CEIL: 200 ppm AMP: 600 ppm 5 minute(s). NIOSH REL (United States, 6/2009). TWA: 50 ppm 10 hour(s). TWA: 215 mg/m³ 10 hour(s). STEL: 425 mg/m³ 15 minute(s).		
	Methanol	ACGIH TLV (United States, 1/2009). Skin TWA: 200 ppm 8 hour(s). TWA: 262 mg/m³ 8 hour(s). STEL: 250 ppm 15 minute(s). STEL: 328 mg/m³ 15 minute(s). NIOSH REL (United States, 6/2009). Skin TWA: 200 ppm 10 hour(s). TWA: 260 mg/m³ 10 hour(s). STEL: 250 ppm 15 minute(s). STEL: 325 mg/m³ 15 minute(s). OSHA PEL (United States, 11/2006).		
	Cobalt Compounds	TWA: 200 ppm 8 hour(s). TWA: 260 mg/m³ 8 hour(s). OSHA PEL (United States). TWA: 0.1 mg/m³ ACGIH TLV (United States). TWA: 0.02 mg/m³		
	While the federal workplace exposure limit proposal to voluntarily meet a PEL of 50 p	it for styrene is 100 ppm, OSHA accepted the styrene industry's opm on an 8 hours TWA.		
Engineering controls		eering controls to keep the airborne concentrations of vapors below nits. Provide adequate safety showers and eyewashes in the area of		
Personal protection	Eye/face: Wear eye protection such as s safety glasses. Skin: Avoid skin contact. Impervious glo or impervious jackets. Respiratory: Determine if airborne conce your company's PPE program and regular respirator that provides adequate protection are generally adequate for organic vapors.			
Personal protection in case of a large spill		suit, and boots. Respiratory protection in accordance with OSHA ained breathing apparatus should be used to avoid inhalation of the		

Section 9. Physical and chemical properties			
Physical state	Liquid.		
Color	Yellow.		
Odor	Aromatic.		
Molecular weight (g/mol)	1000 to 15000		
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Section 9. Physical and chemical properties			
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)		
Water/oil dist. coeff.	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. Toxicologica	l information				
Toxicity to animals	Name	Result	Species	Dose	Exposure
	Styrene	LD50 Oral LC50 Inhalation Vapor	Rat Rat	2650 mg/kg 5634.2 ppm	- 4 hours
	Cobalt Compounds Methanol	LD50 Oral LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Inhalation Gas.	Rat Rabbit Rabbit Mouse Rat Rat Rat	6171 mg/kg 15800 mg/kg 14200 mg/kg 7300 mg/kg 5628 mg/kg 5600 mg/kg 64000 ppm	- - - - - 4 hours
Special remarks on toxicity to animals	Lung effects have been observe	ed in mouse studies following r	repeated (exposure.	
Special remarks on chronic effects on humans	No additional remark.				
Special remarks on other toxic effects on humans	No additional remark.				

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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	<u> </u>	
TDG	UN1866; Resin Solution; 3; III.		I I	
IATA/IMDG	UN1866; Resin Solution; 3; III			
Additional information	US regulations require the reporting of spills when the specific components of this material. See CERCLA in 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, Methanol, Cobalt Compounds.

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

Methanol - 5000 lbs. (2268 kg)

Section 16. Other information

Prepared by

AOC, LLC - Corporate Regulatory Affairs.

CA

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