

TD COAT P

Section 1 : Identification

Product identifier :	TD COAT P	
Recommended use and restrictions:	Polyester adhesive formulated to be used in composites and fiberglass industry.	
Supplier's details :	Polynt Composites Canada Inc.	
Ontario	29, Regan Road Brampton Ontario L7A 1B2	Tel: 905 495-0606
Québec	2650, rue Thérèse Casgrain Drummondville Qc J2A 4J5	Tel: 819 477-4516
Prairies	90, Hoka Street Winnipeg, Manitoba R2C 3N2	Tel: 204 668-4900
British Columbia	50, Douglas Street, Port Moody B.C. V3H 3L9	Tel: 604-937-2663
Atlantic Canada:	One Highland Heights Road, South Side Cape Sable Island, Nova Scotia B0W 1P0	Tel: 902 745-2855

EMERGENCY PHONE NUMBER (24h) CANUTEC : 1-888 226-8832

Section 2 : Hazard Identification

Signal Word: DANGER !

Classification

Skin irritation	Acute toxicity inhalation	Serious eye damage / irritation	Carcinogenicity	Reproductive toxicity	STOT single exposure	STOT repeated exposure	Flammable liquid & vapours
2	4	2	2	2	3	1	3

Category	Hazard statement	Precautionary statement
Category 3	<p>H226 Flammable liquid and vapor.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p>	<p>PREVENTION</p> <p>P201 Obtain special instruction before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat/sparks/open flames/hot surface. No smoking.</p> <p>P235 Keep cool.</p> <p>P240 Ground/Bond container and receiving equipment.</p> <p>P241 Use explosion proof electrical equipment.</p> <p>P242 Use only non-sparkling tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe vapours.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves.</p> <p>P282 Wear face shield & eye protection.</p> <p>P284 Wear respiratory protection.</p>
Category 4	<p>H302 Harmful if swallowed.</p> <p>H332 Harmful if inhaled.</p>	
Category 1	<p>H304 May be fatal if swallowed and enters airways</p> <p>H317 May cause an allergic skin reaction.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure. (central nervous system, hearing organ, visual organ, color vision effect)</p>	
	H315	

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<p>Category 2</p> <p>Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H361 Suspected of damaging fertility or the unborn child.</p>	<p>RESPONSE</p> <p>P304+P340 If inhaled : remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>P312 Call a poison center or a doctor if you feel unwell.</p> <p>P308+P313 If exposed or concerned : Get medical attention</p> <p>P301+P330+P331+P310 If swallowed: Rinse mouth. Do not induce vomiting. Immediately call a doctor.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P337+P313 If eye irritation persists: get medical advice.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>
	<p>STORAGE</p> <p>P233 Keep container tightly closed</p> <p>P403 Store in a well ventilated place.</p> <p>P410 Protect from sunlight.</p>
	<p>DISPOSAL</p> <p>P501 Dispose of container in an authorized center for hazardous waste and in accordance with provincial regulation.</p>



Section 3 : Composition / Information on Ingredients		
Chemical identity of the substance	CAS Number	Percentage (weight %)
Styrene Monomer	100-42-5	20-26

Section 4 : First-aid Measures	
Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water for several 15 minutes. Remove contact lenses if present and easy to do. Call a physician. Continue rinsing. If eye irritation persists, get medical attention.
Skin contact	Wash with plenty of soap and water. Rinse with shower. Take off contaminated clothing and wash it before reuse. If irritation persists, get medical attention.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting, rinse mouth. Consult a physician.
Symptoms	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, loss of coordination, confusion, liver damage.

Section 5 : Fire-fighting Measures
Suitable extinguishing media : foam, carbon dioxide, dry chemicals, sand. Water spray and fog, do not use a heavy water stream.
Specific hazards arising from the chemical : On combustion, styrene releases carbon, carbon monoxide and carbon dioxide.
Special protective actions for fire-fighter : 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 and possible auto-ignition or explosion when exposed to extreme heat.



Section 6 : Accidental Release Measures

Personal precautions, protective equipment and emergency procedures :
 Remove all sources of ignition (flames, hot surfaces and electrical, static, or friction sparks). Avoid breathing vapors. Wear face shield, respiratory & eye protection. Ventilate area. Attention ! Use only non sparking tools. Contaminated absorbent or used absorbent may heat and ignite a fire. Keep it outside and put some water in the container.

Environmental precautions: Prevent entry into waterways,sewers,(risk of fire or explosion) When there is a spill, in presence of water, the styrene will float because specific gravity is lower than water. Styrene is weakly soluble in water.

Methods and materials for containment and cleaning up:
 Use only inert absorbent. Transfer liquid to a holding metallic container and adds some water. Contaminated absorbent or used may heat and ignite a fire. Keep it outside.

Section 7 : Handling and Storage

Precautions for safe handling :
 Do not store above 100°F (37.8°C). Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage. Wash hands after using and before smoking or eating.

Conditions for safe storage, including any incompatibilities :
 Containers should be grounded when pouring. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapours. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Use explosion proof electrical equipment. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. Do not mix residues of this product with any other petroleum wastes.

Supplemental information:
 Hazardous polymerization can occur. Spontaneous polymerization will be accompanied by evolution of heat, which may cause release of styrene vapors forming flammable mixtures with air and a potential fire or explosion. Closed containers may rupture/explode during runaway polymerization. Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Section 8 : Exposure Controls / Personal Protection

Exposure	Québec (CNESST)		Ontario		Manitoba (ACGIH)		British Columbia		Nova Scotia	
	8 hr/day	15min/day	8 hr/day	15 min/day	8 hr/day	15 min/day	8 hr/day	15 min/day	8 hr/day	15 min/day
Styrene 100-42-5	50 ppm	100 ppm	35 ppm	100 ppm	20 ppm	40 ppm	20 ppm	40 ppm	20 ppm	40 ppm

Appropriate engineering controls : Use this product with good ventilation to keep vapour concentration as low as possible.

Individual protection measures, such as personal protective equipment (PPE)	
Respiratory protection : Wear a cartridge or autonomous respirator if the concentration in ppm exceeds recommended exposure standard. These devices, however, require that the user has received appropriate training.	Skin protection : Wear long-sleeved overalls or coveralls. Gloves: Wear Polyvinyl alcohol or viton gloves. Eye/face protection : Use safety eyewear with splash guards or side shields, chemical goggles or face shields.

Section 9 : Physical and Chemical Properties

Physical properties	
Appearance	viscous adhesive
Odour	aromatic
Viscosity	N/D

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Chemical properties

Partition coefficient: n-octanol/water	0,00112	Melting point	-30.6°C
Relative density g/cm cube	1.1 à 1.3	Odour threshold	0.14 ppm
Vapour density	3,6	Initial boiling Point	145°C
Explosibility	Vapors may form an explosive mixture with air.	Flash point	32°C (Pensky-Marten (styrene))
Flammability	Flammable liquid	Solubility(ies)	0.29 g/litre @ 20°C 0.32 g/litre @ 25°C
Lower flammability limit	1.1% by volume	Evaporation rate	N/A
Upper flammability limit	6.1% by volume	Vapour pressure	4.5 mm Hg à 20°C (0.600 kPa)
pH	N/A	Auto-ignition temperature	490°C
Freezing Point	N/A	Decomposition temperature	N/A

Section 10 : Stability and Reactivity

Reactivity	The product is not considered self-reactive
Possibility of hazardous reactions	Hazardous polymerization : may occur with an exothermic reaction
Chemical stability	Unstable under certain conditions.
Conditions to avoid	elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of methylethylketone peroxide catalyst (MEKP) with accelerator(cobalt, calcium, potassium's salts). If an accelerator such as cobalt drier has to be added, mix this accelerator with base material before adding catalyst.
Incompatible materials	oxidizers, peroxides, strong acids
Hazardous decomposition products	thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

Section 11 : Toxicological Information

Information on the likely routes of exposure : Can be absorbed through the respiratory, digestive, skin and eyes.		
Acute exposition effects : May cause central nervous system depression causing headache, nausea, vomiting, drowsiness, dizziness and muscle weakness. Inhalation of high concentrations can lead to convulsions, coma and death.		
Chronic exposition effects : Can cause damage to the brain and nervous system such as dizziness, headache and nausea, if exposure continues, loss of consciousness occurs with possible damage to the liver and kidneys.		
Irritation : May cause lesions to skin, redness and pain in eyes.		
Sensitization: May rarely cause occupational asthma. Skin sensitization is also very rare.		
Carcinogenicity : Group B . Possibly carcinogenic to humans		
Reproductive toxicity : N/A		
Mutagenicity : N/A		
Interactive effects: . A synergic effect between styrene and diethyl maleate and an antagonistic effect between styrene and methionine had been observed.		
Acute toxicity :	LD50, species, tract	LC50,duration, species
Styrène	oral :4,37 g/kg (rat) dermal :>5 g/kg (Rabbit)	Rat : 5000 ppm /8 hr
Methyl Ethyl Ketone	oral: 2700 mg /Kg (rat) dermal :>8000 m g / kg (Rabbit)	7500 ppm / 4 hr rat

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Section 12 : Ecological Information

Acute aquatic toxicity	<u>Seaweed</u> (Scenedesmus capricornutum) : CEc50 (72h)=4,9 mg/litre	<u>Micro-shellfish</u> (Daphnia magna) : CE50 (48h) = 4,7 mg/litre	<u>Fish</u> (Pimephales promelas) : CL50 (96h) = 4,02 mg/litre	<u>Bacteria</u> (Pseudomonas fluorescens) : NOEC (16h) = 72 mg/litre	<u>Annelides</u> (Eisenia foetida) : CL50 (14j) = 120 mg/kg
Terrestrial toxicity	It is readily biodegradable in soil under aerobic conditions.				
Persistence and degradability	Freshwaters half-life: 15 days. Groundwater half-life: 4 to 30 weeks. Marine waters half-life (estimate): 45 days. In the presence of sea water, styrene will be reduced by volatilization, photo-oxidation and biotransformation.				
Bioaccumulative potential	<u>Octanol-water partition coefficient :</u> Log Kow = 3,02		<u>Bioconcentration factor :</u> Fish= 74 Crab= 12 Goldfish =13,5		
Mobility in soil	Moderate	Other adverse effects	N/A		

Section 13 : Disposal Considerations

Disposal methods	Dispose of in accordance with local, provincial and federal regulations. Do not incinerate closed containers. Incinerate in approved facility. Liquid residue must be treated as hazardous waste and disposed in accordance with environmental regulations.
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Section 14 : Transport Information

UN Number	UN1866
Shipping Name	RESIN SOLUTION
Placard	
Transport hazard class(es)	3
Packing Group	III
Environmental hazards	Not considered as a marine pollutant
Transport in bulk	Possible
Maximum quantity we can ship considering limited quantity exemption Article 1.17 of Canadian TDG Regulation	5.0 litres for packing group III



Safety Data Sheet

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Section 15 : Regulatory Information

NFPA CLASSIFICATION (NFPA 30-2008) 1C
National Building Code of Canada 1C

California Proposition 65

 **WARNING:** Cancer - www.P65Warnings.ca.gov.

Section 16 : Other Information

The information contained in this data sheet is given only as a guide. This data sheet had been prepared in good faith using reliable sources. From our point of view, the information is correct, but not guaranteed. The data sheet is non-exclusive as manipulation and use can vary from one application to another. There is no guarantee and Polynt Composites will not be responsible for losses, faults or damages resulting of the use of the information given in this data sheet.

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