



# Safety Data Sheet

## TD COAT RT



Section 1 : Identification	
Product code :	TD COAT RT
Recommended use and restrictions:	Vinyl Ester adhesive formulated to be used in composites and fibreglass industry.
Canadian's supplier details :	<b>Polynt Composites Canada Inc.</b>
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
<b>EMERGENCY PHONE NUMBER (24h) Canutec : 613-996-6666</b>	

**Signal Word: DANGER !**

Section 2 : Hazard Identification		
Category	Hazard statement	Precautionary statement
Category 3	<b>H226</b> Flammable liquid and vapor.  <b>H335</b> May cause respiratory irritation.  <b>H336</b> May cause drowsiness or dizziness.	<b>PREVENTION</b>  <b>P201</b> Obtain special instruction before use. <b>P202</b> Do not handle until all safety precautions have been read and understood. <b>P210</b> Keep away from heat/sparks/open flames/hot surface. No smoking. <b>P235</b> Keep cool. <b>P240</b> Ground/Bond container and receiving equipment. <b>P241</b> Use explosion proof electrical equipment. <b>P242</b> Use only non-sparking tools. <b>P243</b> Take precautionary measures against static discharge. <b>P260</b> Do not breathe vapours. <b>P264</b> Wash hands thoroughly after handling. <b>P270</b> Do not eat, drink or smoke when using this product. <b>P271</b> Use only outdoors or in well-ventilated area. <b>P272</b> Contaminated work clothing should not be allowed out of the workplace. <b>P282</b> Wear face shield & eye protection. <b>P284</b> Wear respiratory protection.
Category 4	<b>H302</b> Harmful if swallowed.  <b>H332</b> Harmful if inhaled.	
Category 1	<b>H304</b> May be fatal if swallowed and enters airways <b>H317</b> May causes an allergic skin reaction.  <b>H372</b> Causes damage to organs through prolonged or repeated exposure. (central nervous system, hearing organ, visual organ, color vision effect)	
Category 2	<b>H315</b> Causes skin irritation.  <b>H319</b> Causes serious eye irritation.  <b>H351</b> Suspected of causing cancer.  <b>H361</b> Suspected of damaging fertility or the unborn child.	<b>RESPONSE</b>  <b>P304+P340</b> If inhaled : remove person to fresh air and keep comfortable for breathing. <b>P305+P351+P338</b> If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. <b>P312</b> Call a poison center or a doctor if you feel unwell. <b>P308+P313</b> If exposed or concerned : Get medical attention <b>P301+P330+P331+P310</b> If swallowed: Rinse mouth. Do not induce vomiting.

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	<p>Immediately call a doctor.  <b>P302+P352</b> If on skin: Wash with plenty of water.  <b>P337+P313</b> If eye irritation persists: get medical advice.  <b>P362+P364</b> Take off contaminated clothing and wash it before reuse.</p>
	<p><b>STORAGE</b>  <b>P233</b> Keep container tightly closed  <b>P403</b> Store in a well ventilated place.  <b>P410</b> Protect from sunlight.</p>
	<p><b>DISPOSAL</b>  <b>P501</b> 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 ( % )
Styrene Monomer	000100-42-5	32-38

### Section 4 : First-aid measures

<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.
<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Ingestion</b>	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting, rinse mouth. Consult a physician.
<b>Symptoms</b>	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

<b>Suitable extinguishing media</b> : foam, carbon dioxide, dry chemicals, sand. Water spray and fog, do not use a heavy water stream.
<b>Specific hazards arising from the chemical</b> : On combustion, styrene releases carbon, carbon monoxide and carbon dioxide.
<b>Special protective actions for fire-fighter</b> : 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

<p><b>Personal precautions, protective equipment and emergency procedures</b> :</p> <p>Remove all sources of ignition (flames, hot surfaces and electrical, static, or friction sparks). Avoid breathing vapors. Wear face shield, respiratory &amp; 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.</p>
<p><b>Environmental precautions:</b> 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.</p>

**Methods and materials for containment and cleaning up:**

Use only inert absorbent. Transfer liquid to a holding metallic container and add 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
<b>Styrene 100-42-5</b>	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 at 50 ppm or less mean concentration for 8 hours.

**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 gloves of butyl or nitrile.

**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** Neutral paste

**Odour** aromatic

**Viscosity** N.A.

**Chemical properties**

<b>Partition coefficient: n-octanol/water</b>	0,00112	<b>Melting point</b>	-30.6°C
<b>Relative density g/cm cube</b>	0.65-0.70	<b>Odour threshold</b>	0.14 ppm
<b>Vapour density</b>	3,6	<b>Initial boiling Point</b>	145°C
<b>Explosibility</b>	Vapors may form an explosive mixture with air.	<b>Flash point</b>	32°C (Pensky-Marten (styrene))
<b>Flammability</b>	Flammable liquid	<b>Solubility(ies)</b>	0.29 g/litre @ 20°C 0.32 g/litre @ 25°C
<b>Lower flammability limit</b>	1.1% by volume	<b>Evaporation rate</b>	N/A

<b>Upper flammability limit</b>	6.1% by volume	<b>Vapour pressure</b>	4.5 mm Hg à 20°C (0.600 kPa)
<b>pH</b>	N/A	<b>Auto-ignition temperature</b>	490°C
<b>Freezing Point</b>	N/A	<b>Decomposition temperature</b>	N/A

Section 10 : Stability and reactivity	
<b>Reactivity</b>	The product is not considered self-reactive
<b>Possibility of hazardous reactions</b>	Hazardous polymerization : may occur with an exothermic reaction
<b>Chemical stability</b>	Unstable under certain conditions.
<b>Conditions to avoid</b>	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.
<b>Incompatible materials</b>	oxidizers, peroxides, strong acids
<b>Hazardous decomposition products</b>	thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

Section 11 : Toxicological information							
<b>Information on the likely routes of exposure :</b> Can be absorbed through the respiratory, digestive, skin and eyes.							
<b>Acute exposition effects :</b> 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.							
<b>Chronic exposition effects :</b> 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.							
<b>Irritation :</b> May cause lesions to skin, redness and pain in eyes.							
<b>Sensitization:</b> May rarely cause occupational asthma. Skin sensitization is also very rare.							
<b>Carcinogenicity :</b> Group B . Possibly carcinogenic to humans							
<b>Reproductive toxicity :</b> N/A							
<b>Mutagenicity :</b> N/A							
<b>Interactive effects :</b> . A synergic effect between styrene and diethyl maleate and an antagonistic effect between styrene and methionine had been observed.							
<b>Acute toxicity : styrene :</b>	<table border="1"> <thead> <tr> <th colspan="2">LD50, species, tract</th> <th>LC50,duration, species</th> </tr> </thead> <tbody> <tr> <td>oral : 4,37 g/kg (rat)</td> <td>dermal : 5g/kg(rabbit)</td> <td>5000 ppm/ 8 hours (rat)</td> </tr> </tbody> </table>	LD50, species, tract		LC50,duration, species	oral : 4,37 g/kg (rat)	dermal : 5g/kg(rabbit)	5000 ppm/ 8 hours (rat)
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Section 12 : Ecological information											
<b>Acute aquatic toxicity</b>	<table border="1"> <thead> <tr> <th>Seaweed (Scenedesmus capricornutum) :</th> <th>Micro-shellfish (Daphnia magna) :</th> <th>Fish (Pimephales promelas) :</th> <th>Bacteria (Pseudomonas fluorescens) :</th> <th>Annelides (Eisenia foetida) :</th> </tr> </thead> <tbody> <tr> <td>CEc50 (72h)=4,9 mg/litre</td> <td>CE50 (48h) = 4,7 mg/litre</td> <td>CL50 (96h) = 4,02 mg/litre</td> <td>NOEC (16h) = 72 mg/litre</td> <td>CL50 (14j) = 120 mg/kg</td> </tr> </tbody> </table>	Seaweed (Scenedesmus capricornutum) :	Micro-shellfish (Daphnia magna) :	Fish (Pimephales promelas) :	Bacteria (Pseudomonas fluorescens) :	Annelides (Eisenia foetida) :	CEc50 (72h)=4,9 mg/litre	CE50 (48h) = 4,7 mg/litre	CL50 (96h) = 4,02 mg/litre	NOEC (16h) = 72 mg/litre	CL50 (14j) = 120 mg/kg
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<b>Terrestrial toxicity</b>	It is readily biodegradable in soil under aerobic conditions.										
<b>Persistence and degradability</b>	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.										
<b>Bioaccumulative potential</b>	<table border="1"> <thead> <tr> <th>Octanol-water partition coefficient :</th> <th>Bioconcentration factor :</th> </tr> </thead> <tbody> <tr> <td>Log Kow = 3,02</td> <td>Fish= 74 Crab= 12 Goldfish =13,5</td> </tr> </tbody> </table>	Octanol-water partition coefficient :	Bioconcentration factor :	Log Kow = 3,02	Fish= 74 Crab= 12 Goldfish =13,5						
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<b>Mobility in soil</b>	Moderate <b>Other adverse effects</b> N/A										



### Section 13 : Disposal considerations

<b>Disposal methods</b>	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

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

### Section 15 : Regulatory information

NFPA CLASSIFICATION (NFPA 30-2008)	1C
National Building Code of Canada	1C
<b>California Proposition 65</b>	
This product contains a chemical(s) known to the state of California to cause cancer, birth defects and/or reproductive harm.	

### Section 16 : Other information

<p>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.</p> <p><b>In date of : 2018-03-26</b></p>	
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