



**Safety Data Sheet**  
FOR INDUSTRIAL USE ONLY

**TD Seal RT**

**1. Identification**

**Product Name:** TD Seal RT  
**SDS Number:** 400000000552  
**Product Type:** Vinyl ester  
**Product Use:** Industrial

**Manufacturer, Importer, Supplier** Polynt Composites USA, Inc.  
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Carpentersville IL 60110

E-Mail: MSDS@polynt.com

**Telephone** For Emergency Transportation Information  
CHEMTREC US Domestic (800) 424-9300  
CHEMTREC International (703) 741-5970

For additional health, safety or regulatory information, call (847) 836-3659

**2. Hazard identification**

**EMERGENCY OVERVIEW:** FLAMMABLE LIQUID AND VAPOR. WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF INHALED. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. TOXIC GAS IS GIVEN OFF DURING BURNING OR THERMAL DECOMPOSITION. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. HARMFUL IF SWALLOWED.

**GHS Classification**

Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 NE, STOT SE 3 RTI

**Symbol(s) of Product**



**Signal Word**

Warning

**Possible Hazards**

2% of the mixture consists of ingredient(s) of unknown acute toxicity

**GHS HAZARD STATEMENTS**

Acute Toxicity, Inhalation, category 4 H332 Harmful if inhaled.

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Flammable Liquid, category 3	H226	Flammable liquid and vapour.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

**GHS LABEL PRECAUTIONARY STATEMENTS**

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use dry chemical, foam, water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.

**GHS SDS PRECAUTIONARY STATEMENTS**

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P363	Wash contaminated clothing before reuse.

**3. Composition/Information on ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
Styrene	100-42-5	30 - 40
Methyl Methacrylate	80-62-6	20 - 30
Hydroxyethyl Methacrylate	868-77-9	1.0-5.0
COBALT 2-ETHYLHEXANOATE, 12% COBALT	136-52-7	0.1-1.0
Benzenamine, N,N-dimethyl-	121-69-7	0.1-1.0

**4. First-aid measures**

**FIRST AID - EYE CONTACT:** Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.

**FIRST AID - INGESTION:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, administer CPR until help arrives or the victim starts to breathe on his own. If breathing is difficult, give oxygen. Seek medical attention immediately.

**FIRST AID - SKIN CONTACT:** Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical

attention immediately. Wash thoroughly after handling.

## 5. Fire-fighting measures

### Extinguishing Media:

**Suitable** Dry Chemical, CO2, Water Fog/Mist, Foam  
**Not suitable** Water Jet

**SPECIAL FIREFIGHTING PROCEDURES:** Wear full protective gear & SCBA.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Combustible liquid. At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

## 6. Accidental release measures

**ENVIRONMENTAL MEASURES:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**PRECAUTIONARY MEASURES:** Put on appropriate personal protective equipment (see Section 8). Do not touch or walk through spilled material. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

## 7. Handling and storage



**HANDLING:** Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Do not leave containers open. Avoid repeated or prolonged contact with skin. Empty containers retain product residue. Observe all safety precautions. Do not reuse container. Avoid inhalation and contact with eyes, skin, and clothing. Wash hands thoroughly after handling and before eating or drinking. In keeping with safe handling practices, avoid ignition sources (smoking, flames, pilot lights, electrical sparks); ground and bond containers when transferring the material to prevent static electricity sparks that could ignite vapor and use spark proof tools and explosion proof equipment. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition.

**STORAGE:** Store in a cool, dry place. Protect from damage. KEEP IN A COOL, DRY, VENTILATED STORAGE AND IN CLOSED CONTAINERS. KEEP AWAY FROM OXIDIZERS, HEAT OR FLAMES. Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor. Do not store with incompatible materials. Store and dispose according to national, state and local regulations.

**HYGIENIC PRACTICES:** General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

**WORK PRACTICES:** Put on appropriate personal protective equipment. Wash hands after handling chemicals and before eating, drinking, or smoking. Read and understand entire SDS before handling chemical.

**SPECIAL HANDLING PROCEDURES:** Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Follow US NFPA 30, "Flammable and Combustible Liquids Code", or other national, state and local codes on safe handling of flammable liquids. Train workers in the recognition and prevention of hazards associated with the storage, handling, and transfer of flammable liquids in the plant. Empty containers retain product residue and can be hazardous.

## 8. Exposure controls/personal protection

### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA CEILING</u>
Styrene	20 ppm	40 ppm	100 ppm	200 ppm
Methyl Methacrylate	50 ppm	100 ppm	100 ppm	N.E.
Hydroxyethyl Methacrylate	N.E.	N.E.	N.E.	N.E.

COBALT 2-ETHYLHEXANOATE, 12% COBALT	N.E.	N.E.	N.E.	N.E.
Benzenamine, N,N-dimethyl-	5 ppm	10 ppm	5 ppm	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
Sk = Skin Sensitizer N.E. = Not Established

### Personal Protection



**RESPIRATORY PROTECTION:** Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



**SKIN PROTECTION:** Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact. Impervious gloves.



**EYE PROTECTION:** Safety glasses with side-shields. Avoid contact with eyes.



**OTHER PROTECTIVE EQUIPMENT:** Use good hygiene practices. Wash face and hands before eating, drinking, and smoking. Eye wash and safety showers should be readily available.



**HYGIENIC PRACTICES:** General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

## 9. Physical and chemical properties

Color:	Bluish	Physical State:	Liquid
Odor:	Styrene	Odor Threshold:	Not Available
Density, g/cm <sup>3</sup> :	1.070	pH:	Not Available
Freeze Point, °C:	Not Available	Viscosity:	Not Available
Solubility in Water:	Insoluble	Partition Coefficient, n-octanol/ water:	Not Available
Decomposition Temp., °C:	Not Available	Flash Point, °C / F°	31 / 88
Boiling Range, °C:	145	Explosive Limits, vol%:	Not Available
Vapor Pressure:	Not Available	Auto-ignition Temp., °C:	Not Available

(See "Other information" Section for abbreviation legend)

## 10. Stability and reactivity

**STABILITY:** This material is stable under normal storage and handling conditions.

**CONDITIONS TO AVOID:** High temperatures, sparks, open flame, and all other sources of ignition. Avoid heat, sparks, flames and other ignition sources.

**INCOMPATIBILITY:** Keep away from strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** COMBUSTION PRODUCES CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.

## 11. Toxicological information



### Practical Experiences

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Moderate irritation including redness, swelling, pain, tearing and hazy vision. May cause irritation, discomfort, reddening and tearing.

**EFFECT OF OVEREXPOSURE - INGESTION:** May cause irritation of the respiratory tract and CNS effects such as dizziness, headaches, nausea and narcosis.

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation of high concentrations may cause headache, nausea, and dizziness.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Prolonged contact may cause irritation and/or redness.

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** No Information

**CARCINOGENICITY:** \* This product contains the following chemicals classified by the International Agency for Research on Cancer (IARC) as 1, 2A, or 2B carcinogens:

\*This product may contain a chemical which is listed in the NTP report on carcinogens.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Contact

#### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
100-42-5	Styrene	5000 mg/kg Rat	>2000 mg/kg	2770 mg/L Rat 4h
80-62-6	Methyl Methacrylate	8420 - 10000 mg/kg Rat	>5000 (rabbit)	29.8 (rabbit)
868-77-9	Hydroxyethyl Methacrylate	5050 mg/kg Rat	>3000 mg/kg Rabbit	N.I.
136-52-7	COBALT 2-ETHYLHEXANOATE, 12% COBALT	N.I.	>5000 mg/kg Rabbit	N.I.
121-69-7	Benzenamine, N,N-dimethyl-	951 mg/kg Rat	1770 mg/kg Rabbit	>0.5 - <5.0 mg/L Rat

N.I. = No Information

## 12. Ecological information

**ECOLOGICAL INFORMATION:** Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits. Discharge into the environment must be avoided.

## 13. Disposal considerations



**DISPOSAL METHOD:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

## 14. Transport information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

### International transport regulations

<b>Regulatory Information:</b>	<b>UN/NA Number</b>	<b>Proper Shipping Name</b>	<b>Classes/ *PG</b>	<b>Reportable Quantity (RQ)</b>
CFR	UN1866	RESIN SOLUTION	Class 3 PGIII	
IMO/IMDG	UN1866	RESIN SOLUTION	Class 3 PGIII	
IATA	UN1866	RESIN SOLUTION	Class 3 PGIII	

## 15. Regulatory information

**U.S. Federal Regulations:****CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

<u>Chemical Name</u>	<u>CAS-No.</u>
Styrene	100-42-5
Methyl Methacrylate	80-62-6
Benzenamine, N,N-dimethyl-	121-69-7

**SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Styrene	100-42-5
Methyl Methacrylate	80-62-6
Benzenamine, N,N-dimethyl-	121-69-7

**TOXIC SUBSTANCES CONTROL ACT:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) regulated components exist in this product.

**CALIFORNIA PROPOSITION 65 CARCINOGENS**

Warning: This product contains a chemical known to the state of California to cause cancer.

<u>Chemical Name</u>	<u>CAS-No.</u>
Styrene	100-42-5
Benzenamine, N,N,4-trimethyl-	99-97-8
Ethylbenzene	100-41-4
Cumene	98-82-8

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

<u>Chemical Name</u>	<u>CAS-No.</u>
Toluene	108-88-3

**International Regulations**

<b>Chemical Inventories</b>	<b>Australia inventory (AICS)</b>	Not listed
	<b>Canada inventory (DSL)</b>	All components are listed or exempted
	<b>Canada inventory (NDSL)</b>	No Information
	<b>Japan Inventory (ENCSC)</b>	Not listed
	<b>China Inventory (IECSC)</b>	All components are listed or exempted
	<b>Korea Inventory (KECI)</b>	All components are listed or exempted
	<b>New Zealand (NZIoC)</b>	All components are listed or exempted
	<b>Philippines (PICCS)</b>	Not listed
	<b>United States Inventory (TSCA 8b)</b>	All components are listed or exempted

## 16. Other information

<b>Revision Date:</b>	4/13/2018	<b>Supersedes Date:</b>	New SDS
<b>Reason for revision:</b>	No Information		
<b>Datasheet produced by:</b>	Regulatory Department		

### HMIS Ratings:

<b>Health:</b>	2	<b>Flammability:</b>	3	<b>Reactivity:</b>	1	<b>Personal Protection:</b>	N.I.	<b>Chronic Rating:</b>	*
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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