



**Safety Data Sheet**  
FOR INDUSTRIAL USE ONLY

**TRU-DESIGN TD SEAL HT**

Revision Date 6/6/2019

**1. Identification**

**Product Name:** TRU-DESIGN TD SEAL HT

TD SEAL HT

**SDS Number:** TD SEAL HT

**Product Use:** Industrial

**Manufacturer, Importer, Supplier** Polynt Composites USA, Inc.  
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**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:** May cause sensitization by inhalation and skin contact. Risk of serious damage to the lungs (by aspiration).

**GHS Classification**

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

**Symbol(s) of Product**



**Signal Word**

Danger

**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, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
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.
P260	Do not breathe 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.
P281	Use personal protective equipment as required.
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.
P270	Do not eat, drink or smoke when using this product.
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	40.10
Methacrylic acid, methyl ester	80-62-6	20 - 30
Hydroxyethyl Methacrylate	868-77-9	1.0-5.0
Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)	136-52-7	0.1-1.0

**4. First-aid measures**

**FIRST AID - EYE CONTACT:** If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**FIRST AID - INGESTION:** Aspiration hazard if swallowed - can enter lungs and cause damage. If ingested, consult a physician. Do NOT induce vomiting.

**FIRST AID - INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**FIRST AID - SKIN CONTACT:** Wash with soap and water. Remove contaminated clothes and shoes. Get medical attention if irritation develops.

## 5. Fire-fighting measures

### Extinguishing Media:

**Suitable** Carbon Dioxide, Dry Chemical, Foam, Water Fog  
**Not suitable** Water Jet

**SPECIAL FIREFIGHTING PROCEDURES:** Use full protective clothing. Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray. In case of fire: Use carbon dioxide, dry chemical, foam, water fog to extinguish. Vapors may be ignited by heat, pilot lights, other flames and ignition sources. Self-accelerating decomposition may occur if the specific control temperature is not maintained. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No Information

## 6. Accidental release measures

**ENVIRONMENTAL MEASURES:** Prevent entry into waterways, sewers, basements or confined areas. 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:** Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Avoid breathing vapors or mists. Use non-sparking tools and equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Do not flush into surface water or sanitary sewer system. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**PRECAUTIONARY MEASURES:** No Information

## 7. Handling and storage



**HANDLING:** Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothing. Ground/bond container and equipment. Wear personal protective equipment. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Do not breathe vapors, mist or gas.

**STORAGE:** Store contents under 100F (37.8C). Store drums with bung in the upright position. Electrical equipment must be grounded; suitable for the classification of the area where it is installed and conform to the National Electric Code (see NFPA 70). Store in cool well ventilated space away from incompatible materials. Keep container closed when not in use. Store and dispose according to national, state and local regulations.

**HYGIENIC PRACTICES:** When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. 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.

## 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
Methacrylic acid, methyl ester	50 ppm	100 ppm	100 ppm	N.E.
Hydroxyethyl Methacrylate	N.E.	N.E.	N.E.	N.E.
Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)	N.E.	N.E.	N.E.	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:** When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary. 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:** Wear suitable protective equipment. Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.



**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material.



**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:** When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

**9. Physical and chemical properties**

<b>Color:</b>	Translucent	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Moderate aromatic	<b>Odor Threshold:</b>	Not Available
<b>Density, g/cm<sup>3</sup>:</b>	0.998	<b>pH:</b>	Not Available
<b>Freeze Point, °C:</b>	Not Available	<b>Viscosity:</b>	Not Available
<b>Solubility in Water:</b>	Insoluble	<b>Partition Coefficient, n-octanol/water:</b>	Not Available
<b>Decomposition Temp., °C:</b>	Not Available	<b>Flash Point, °C / F°</b>	26 / 79
<b>Boiling Range, °C:</b>	100	<b>Explosive Limits, vol%:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available	<b>Auto-ignition Temp., °C:</b>	Not Available

(See "Other information" Section for abbreviation legend)

**10. Stability and reactivity**

**STABILITY:** The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution. Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid improper addition of promotor and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If adding accelerator like cobalt drier, mix accelerator with base material before adding catalyst. Burning may produce obnoxious and toxic fumes. Hazardous polymerization may occur. Keep product away from heat, sparks, pilot lights, static electricity, and open flame.

**INCOMPATIBILITY:** Free radical initiators. Copper. Strong acids. Metal salts. Strong oxidizing and reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal use.

**11. Toxicological information****Practical Experiences**

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Exposure may cause mild irritation. Symptoms may include stinging, tearing, and redness.

**EFFECT OF OVEREXPOSURE - INGESTION:** May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea.

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Ingestion of large doses may cause headaches, dizziness, nausea, vomiting, and drowsiness. Irritating to skin.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Prolonged skin contact may defat the skin and produce dermatitis.

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause central nervous system damage. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure may cause liver and kidney effects.

**CARCINOGENICITY:** This product contains styrene classified by the International Agency for Research on Cancer (IARC) as 2A carcinogen.

This product contains styrene, 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	1000 mg/kg Rat	N.I.	11.7 mg/L Rat
80-62-6	Methacrylic acid, methyl ester	8420 - 10000 mg/kg Rat	5000 - 7500 mg/kg Rabbit	N.I.
868-77-9	Hydroxyethyl Methacrylate	5050 mg/kg Rat	>3000 mg/kg Rabbit	N.I.
136-52-7	Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)	N.I.	>5000 mg/kg Rabbit	N.I.

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

Regulatory Information:	UN/NA Number	Proper Shipping Name	Classes/ *PG	Reportable Quantity (RQ)
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
Methacrylic acid, methyl ester	80-62-6

#### 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
Methacrylic acid, methyl ester	80-62-6

#### 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: Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

<u>Chemical Name</u>	<u>CAS-No.</u>
Styrene	100-42-5
Ethylbenzene	100-41-4

### International Regulations

<b>Chemical Inventories</b>	<b>Australia inventory (AICS)</b>	Not listed
	<b>Canada inventory (DSL)</b>	Not listed
	<b>Canada inventory (NDSL)</b>	Not listed
	<b>Japan Inventory (ENCSC)</b>	Not listed
	<b>China Inventory (IECSC)</b>	All components are listed or exempted
	<b>Korea Inventory (KECI)</b>	Not listed
	<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**

**Revision Date:** 6/6/2019 **Supersedes Date:** 8/18/2018  
**Reason for revision:** Updated SDS Information  
**Datasheet produced by:** Regulatory Department

**HMIS Ratings:**

<b>Health:</b>	2*	<b>Flammability:</b>	3	<b>Reactivity:</b>	2	<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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