Safety Data Sheet

FOR INDUSTRIAL USE ONLY

TD SEAL HT

Revision Date 2/22/2021

1. Identification

Product Name:	TD SEAL HT
	TD SEAL HT
SDS Number:	TD SEAL HT
Product Use:	Industrial
Manufacturer, Importer, Supplier	Polynt Composites USA, Inc. 99 East Cottage Avenue 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: May cause sensitization by inhalation and skin contact. Risk of serious damage to the lungs (by aspiration).

GHS Classification

Carc. 2, Eye Irrit. 2A, Flam. Liq. 2, 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

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.

Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.

GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P321	Specific treatment (see ... on this label).
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.

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

Chemical Name	CAS-No.	Wt. %
Styrene	100-42-5	40 - 50
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: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

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

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. Vapors may be ignited by heat, pilot lights, other flames and ignition sources. Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray. 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.). In case of fire: Use carbon dioxide, dry chemical, foam, water fog to extinguish.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No Information

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). Prevent entry into waterways, sewers, basements or confined areas.

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. 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). Use non-sparking tools and equipment. Avoid breathing vapors or mists.

PRECAUTIONARY MEASURES: No Information

7. Handling and storage

HANDLING: 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. Ground/bond container and equipment. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse.

STORAGE: Keep container closed when not in use. Store and dispose according to national, state and local regulations. Store in cool well ventilated space away from incompatiable materials. 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).

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

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA CEILING
Styrene	10 ppm	20 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

Color:	Translucent	**Physical State:**	Liquid
Odor:	Moderate aromatic	**Odor Threshold:**	Not Available
Density, g/cm3:	0.998	**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°**	10 / 50
Boiling Range, °C:	100	**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: 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: Burning may produce obnoxious and toxic fumes. Hazardous polymerization may occur. Keep product away from heat, sparks, pilot lights, static electricity, and open flame. 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.

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

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. Ingestion of large doses may cause headaches, dizziness, nausea, vomiting, and drowsiness. 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. Irritating to skin.

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

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

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:

CAS-No.	Name according to EEC	Oral LD50	Dermal LD50	Vapor LC50
100-42-5	Styrene	5000 mg/kg Rat	2000 mg/kg Rat	11.8 mg/L Rat
80-62-6	Methacrylic acid, methyl ester	7900 mg/kg Rat	7500 mg/kg Rabbit	30 mg/l Rat
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: Discharge into the environment must be avoided. 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.

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 PGII	
IMO/IMDG	UN1866	RESIN SOLUTION	Class 3 PGII	
IATA	UN1866	RESIN SOLUTION	Class 3 PGII	

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, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

Chemical Name	CAS-No.
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:

Chemical Name	CAS-No.
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

Chemical Name	CAS-No.
Styrene	100-42-5
Ethylbenzene	100-41-4

International Regulations

Chemical Inventories	**Australia inventory (AICS)**	Not listed
	Canada inventory (DSL)	One or more components are not on the DSL
	Canada inventory (NDSL)	One or more components are on the NDSL
	Japan Inventory (ENCSC)	Not listed
	China Inventory (IECSC)	All components are listed or exempted
	Korea Inventory (KECI)	Not listed
	New Zealand (NZIoC)	All components are listed or exempted
	Philippines (PICCS)	Not listed
	United States Inventory (TSCA 8b)	All components are listed or exempted

16. Other information

Revision Date: 2/22/2021 **Supercedes Date:** 1/26/2021

Reason for revision: Updated SDS Information

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	2*	Flammability:	3	Reactivity:	2	Personal Protection:	N.I.	Chronic Rating:	*

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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