SAFETY DATA SHEET
Revision Date 28/Dec/2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Description: POLYLITE® HS US 35500-00

Other means of identification
SAP ID(s): 201748 ; 201749; 204070
Material Code: 35500-00
Chemical Family Vinyl Hybrid

Recommended use of the chemical and restrictions on use
Recommended Use Prepreg
Uses advised against No information available

Details of the supplier of the safety data sheet
Manufacturer/Supplier: Polynt Composites USA, Inc.
99 East Cottage Avenue
Carpentersville IL 60110

In Canada
Polynt Composites Canada Inc
29 Regan Road
Brampton, Ontario
L7A 1B2

Emergency Telephone
Chemtrec: 1-800-424-9300 (in U.S. & Canada)
+1-703-741-5970 (international)

E-mail address MSDS@polynt.com

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization Sub-category 1B

Label elements

Warning
Hazard statements
May cause an allergic skin reaction

Appearance Yellow
Physical State Very viscous Liquid
Odor Mild Odorless

Precautionary Statements - Prevention
Avoid breathing vapor or mist  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves  

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  

Precautionary Statements - Disposal  
Dispose of contents/container to an approved waste disposal plant  
Dispose of in accordance with federal, state and local regulations  

Hazards not otherwise classified (HNOC)  
Not applicable  

Other Information  
Harmful to aquatic life  

Unknown acute toxicity 96.4% of the mixture consists of ingredient(s) of unknown toxicity  
Unknown aquatic toxicity 96.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment  

### 3. COMPOSITION/INFORMATION ON INGREDIENTS  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroxypropyl methacrylate</td>
<td>27813-02-1</td>
<td>3 - 4</td>
<td></td>
</tr>
</tbody>
</table>

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.  

### 4. FIRST AID MEASURES  

First Aid Measures  

Eye Contact  
Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. Move individual away from exposure.  

Skin Contact  
Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.  

Inhalation  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  

Ingestion  
Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice. Do NOT induce vomiting.  

Most important symptoms and effects, both acute and delayed  

Most Important Symptoms and Effects  
May cause allergic skin reaction.  

Indication of any immediate medical attention and special treatment needed  

Notes to Physician  
Treat symptomatically.  

### 5. FIRE-FIGHTING MEASURES  

Suitable Extinguishing Media  
Carbon dioxide (CO2), Foam, Dry chemical, Water spray, Water or foam may cause frothing  

Unsuitable Extinguishing Media  
Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical

Hazardous combustion products
Carbon monoxide, Carbon dioxide (CO2)

Combustion/explosion hazards
This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat.

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment
Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods for Clean-up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Do not breathe vapor or mist. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed. Keep in a dry place. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits
Contains no substances with occupational exposure limit values.

Hydroxypropyl methacrylate (CAS #: 27813-02-1)
Manufacturer's Limit 1.0 ppm (TWA)

Appropriate engineering controls

Engineering Controls
Use general ventilation to maintain airborne concentrations to levels that are below regulatory and recommended occupational exposure limits. Local ventilation may be required during certain operations. Good general ventilation should be sufficient to control airborne levels of irritating vapors. Use adequate ventilation and/or engineering controls in
Individual protection measures, such as personal protective equipment

Eye/face Protection
Safety glasses with side-shields. Ensure that eyewash stations and safety showers are close to the workstation location. If splashes are likely to occur: Tight sealing safety goggles.

Skin Protection
Gloves made of polyvinyl chloride (PVC). Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Gloves made of nitrile rubber. Gloves made of neoprene. Impervious clothing.

Respiratory Protection
None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with particulate filters where airborne concentrations may exceed exposure limits in Section 8. In the case of dust or aerosol formation use respirator with an approved filter. In case of insufficient ventilation, wear suitable respiratory equipment. No personal respiratory protective equipment normally required. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Odorless</td>
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<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Very viscous Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93°C</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
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</tr>
<tr>
<td>Upper</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.18 - 1.19 @ 25°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble (Water)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
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<tr>
<td>Oxidizing Properties</td>
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<tr>
<td>Percent Volatile</td>
<td>&lt;4 % by weight</td>
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<tr>
<td>VOC Content</td>
<td>48 g/l</td>
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<tr>
<td>Viscosity</td>
<td>1000-2000 cps @ 100°C</td>
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<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not applicable.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
Hazardous polymerization  
Hazardous polymerization does not occur.

Conditions to Avoid  
Contamination by those materials referred to under Incompatible materials. Freezing temperatures.

Incompatible materials  
Incompatible with oxidizing agents. Strong oxidizing agents.

Hazardous decomposition products  
Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary Routes of Entry  
Ingestion, Inhalation, Eye contact

Acute toxicity  
No information available

Hydroxypropyl methacrylate

Oral LD50  
> 2000 mg/kg (Rat)

Dermal LD50  
> 5000 mg/kg (Rabbit)

Information on toxicological effects

Symptoms  
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eyes  
Mild eye irritation.

Skin  
May cause sensitization by skin contact.

Inhalation  
May cause upper respiratory tract irritation. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion  
Ingestion (swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

Irritation  
May cause skin and eye irritation.

Corrosivity  
Not corrosive.

Sensitization  
May cause an allergic skin reaction. May cause sensitization of susceptible persons by skin contact.

Repeated dose toxicity  
No information available.

Mutagenic effects  
No information available.

Carcinogenicity  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Legend  
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
IARC - International Agency for Research on Cancer

Reproductive Toxicity  
No information available.
Neurological effects  No information available.
STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Aspiration hazard  No information available.
Unknown acute toxicity  96.4 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

- ATEmix (oral)  2001 mg/kg
- ATEmix (dermal)  5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity  No information available. Harmful to aquatic life.

Hydroxypropyl methacrylate
- Partition coefficient  0.97
- Algae  EC50 > 97.2 mg/l (Pseudokirchneriella subcapitata) (72H) static
- Fish  LC50 = 493 mg/l (Leuciscus idus melanotus) (48H) static

Unknown aquatic toxicity  96.1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence/Degradability  No information available.
Bioaccumulation  No information available.
Other adverse effects  No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Considerations  NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

Contaminated packaging  Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number  Not applicable.

14. TRANSPORT INFORMATION

DOT
- Proper shipping name  NOT REGULATED

TDG
- Proper shipping name  NOT REGULATED

MEX
- Proper shipping name  NOT REGULATED
15. REGULATORY INFORMATION

**International Inventories**

**TSCA Inventory Status:** All components of this material are listed on or are exempt from the US Toxic Substances Control Act (TSCA) inventory.

**Canadian Inventory Status:** This material contains components that are NOT listed on the Canadian Domestic Substances List (DSL)

**Australian Inventory Status:** This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances

**Korean Inventory Status:** This product contains one or more chemicals currently not on the Korean Chemical Substances List

**Philippine Inventory:** This product contains one or more chemicals currently not on the Philippine Inventory of Chemicals and Chemical Substances

**Japan ENCS:** This product contains one or more chemicals currently not on the Japanese Inventory of Existing and New Chemical Substances

**Chinese IECS:** All components are listed on the Chinese inventory of chemicals or are otherwise notified

**New Zealand Inventory:** This product contains one or more chemicals currently not on the New Zealand Inventory of Chemicals

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**EPCRA: Emergency Planning and Community Right-to-Know Act**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**
This product does not contain any listed substances

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product does not contain any HAPs.

**CERCLA**
This product does not contain components that have been assigned reportable quantities.

**Chemical Weapons Convention (CWC)**
This product does not contain any listed substances.

**State Regulations**

**California Proposition 65**
WARNING: This material contains a chemical known to the State of California to cause birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

**Canada**
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**Prepared By**

Polynt Regulatory Department

**Revision Date**

28/Dec/2017

**Revision Note**

None

**Former date**

New

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End of Safety Data Sheet

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