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 X4885-70

Other means of identification
SAP ID(s): 206122 ; 206123
Material Code: X4885-70
Chemical Family Vinyl Hybrid

Recommended use of the chemical and restrictions on use
Recommended Use Sheet Molding Compound
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)

Reproductive toxicity Category 2

Label elements

Warning
Hazard statements
Suspected of damaging fertility or the unborn child

Appearance Clear Amber Physical State Viscous liquid Odor Ester-like

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

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
May be harmful in contact with skin

Unknown acute toxicity 87.5 % of the mixture consists of ingredient(s) of unknown toxicity
Unknown aquatic toxicity 99.3 % of the mixture consists of component(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>Toluene</td>
<td>108-88-3</td>
<td>0.39535</td>
<td></td>
</tr>
</tbody>
</table>

If CAS number is “proprietary”, the specific chemical identity has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First Aid Measures**

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

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

**Most important symptoms and effects, both acute and delayed**
No information available.

**Indication of any immediate medical attention and special treatment needed**
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**  
No specific hazard known.

**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).

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling**

Avoid breathing vapors or mists. 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. Prevent contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage**

Keep container tightly closed. Keep in a dry place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits**

Components with workplace control parameters.

**Toluene (CAS #: 108-88-3)**

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV</td>
<td>20 ppm TWA</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>200 ppm TWA</td>
</tr>
<tr>
<td>300 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td>Canada - Alberta OELs</td>
<td>50 ppm TWA</td>
</tr>
</tbody>
</table>
188 mg/m³ TWA
Substance may be readily absorbed through intact skin

Canada - Ontario OELs
Canada - British Columbia OELs
NIOSH IDLH
Mexico OEL

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)
TLV® (Threshold Limit Value)
TWA (time-weighted average)
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
OEL - Occupational Exposure Limit
NIOSH - National Institute for Occupational Safety and Health
IDLH - Immediately Dangerous to Life or Health
SKIN: Skin Absorption

Appropriate engineering controls

Engineering Controls
Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local ventilation may be required during certain operations. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Provide appropriate exhaust ventilation at places where dust is formed.

Individual protection measures, such as personal protective equipment

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

Skin Protection
Wear chemical-resistant gloves such as polyvinyl alcohol. Gloves made of Viton®. 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. Impervious clothing.

Respiratory Protection
In case of insufficient ventilation, wear suitable respiratory equipment. In the case of dust or aerosol formation use respirator with an approved filter. 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>Clear Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Ester-like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93°C / &gt; 200 °F</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.110 - 1.170 @ 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>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Explosive properties: No information available
Oxidizing Properties: No information available
Percent Volatile: 0.0 - 6.0 % by weight
VOC Content: 14 g/l maximum
Viscosity: 4000 - 5000 cps @ 25°C
Partition coefficient: No information available
Decomposition temperature: No information available

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.

Incompatible materials
Incompatible with oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Primary Routes of Entry: Skin Contact, Ingestion, Inhalation, Eye contact

Acute toxicity
Toluene
Oral LD50: = 5000 mg/kg (Rat)
Dermal LD50: = 8390 mg/kg (Rabbit)
= 12124 mg/kg (Rat)

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: Mild skin irritant. Repeated exposure may cause skin dryness or cracking.
Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
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. May cause irritation.
Corrosivity: Not corrosive.
Sensitization: Not sensitizing.
Mutagenic effects
No information available.

Carcinogenicity
.

**Toluene**

| ACGIH | A4 - Not Classifiable as a Human Carcinogen |

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)

**Reproductive Toxicity**
Product is or contains a chemical which is a known or suspected reproductive hazard.

**Developmental Toxicity**
Prolonged and repeated exposure of pregnant animals to toluene (> 1500 ppm) have been reported to cause adverse fetal developmental effects.

**Neurological effects**
No information available.

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
No information available.

**Target organ effects**
None known, None under normal use conditions.

**Aspiration hazard**
No information available.

**Unknown acute toxicity**
87.5 % of the mixture consists of ingredient(s) of unknown toxicity.

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

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>7752  mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEmix (dermal)</td>
<td>3452  mg/kg</td>
</tr>
<tr>
<td>ATEmix (inhalation-vapor)</td>
<td>48</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Toluene**

<table>
<thead>
<tr>
<th>Partition coefficient</th>
<th>2.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae</td>
<td>EC50 = 12.5 mg/L (Pseudokirchneriella subcapitata) (72h)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50  15.22 - 19.05 mg/L (Pimephales promelas) (96 h) flow-through</td>
</tr>
<tr>
<td></td>
<td>LC50  = 12.6 mg/L (Pimephales promelas) (96 h) static</td>
</tr>
<tr>
<td></td>
<td>LC50  = 5.89 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) flow-through</td>
</tr>
<tr>
<td></td>
<td>LC50  14.1 - 17.16 mg/L (Oncorhynchus mykiss) (96 h) static</td>
</tr>
<tr>
<td></td>
<td>LC50  = 5.8 mg/L (Oncorhynchus mykiss) (96 h) semi-static</td>
</tr>
<tr>
<td></td>
<td>LC50  11.0 - 15.0 mg/L (Lepomis macrochirus) (96 h) static</td>
</tr>
<tr>
<td></td>
<td>LC50  = 54 mg/L (Oryzias latipes) (96 h) static</td>
</tr>
<tr>
<td></td>
<td>LC50  = 28.2 mg/L (Poecilia reticulata) (96 h) semi-static</td>
</tr>
<tr>
<td></td>
<td>LC50  50.87 - 70.34 mg/L (Poecilia reticulata) (96 h) static</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50  5.46 - 9.83 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td>EC50  = 11.5 mg/L 48 h</td>
</tr>
</tbody>
</table>

**Unknown aquatic toxicity**
99.3 % 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. Process and waste water containing this material, shall not be discharged to the aquatic environment.

Contaminated packaging  
Contaminated containers should never enter into a recycling program and should only be landfilled as a non-hazardous waste.

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

IATA  
Proper shipping name  
NOT REGULATED

IMDG/IMO  
Proper shipping name  
NOT REGULATED

15. REGULATORY INFORMATION

International Inventories

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

Canadian Inventory Status:  
All components of this material are 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 only chemicals that are currently listed on the Japanese Inventory of Existing and New Chemical Substances

Chinese IECS:  
This product contains only chemicals that are currently listed on the Chinese Inventory of Existing Chemical Substances

New Zealand Inventory:  
This product contains only chemicals which are currently listed on the New Zealand Inventory of Chemicals

US Federal Regulations

TSCA 12(b) - Export Notification:  
This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b)
Export Notification requirements.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>SARA 313 Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>0.39535</td>
<td>Listed</td>
</tr>
</tbody>
</table>

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 contains the following listed substances:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>1000 lb</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>HAPS data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>0.39535</td>
<td>Listed</td>
</tr>
</tbody>
</table>

CERCLA
This product contains the following reportable quantities:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>40 CFR 302.4 RQ</th>
<th>40 CFR 355 EHS TPQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>1000 lb</td>
<td>454 kg 1 lb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.454 kg</td>
</tr>
</tbody>
</table>

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 cancer and 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

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