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

Product identifier
Product Description: POLYLITE® HS 35061-00

Other means of identification
SAP ID(s): 195315 ; 195316
Material Code: 35061-00
Chemical Family Vinyl ester hybrid

Recommended use of the chemical and restrictions on use
Recommended Use Transportation
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
Flammable liquids Category 4

Label elements

Warning

Hazard statements
Suspected of damaging fertility or the unborn child
Combustible liquid

Emergency Overview

Appearance Clear Amber
Physical State Viscous liquid
Odor Mild
Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
Dispose of contents/container to industrial incineration plant
Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
None known

Unknown acute toxicity 89.0 % of the mixture consists of ingredient(s) of unknown toxicity
Unknown aquatic toxicity 99.6 % 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>Toluene</td>
<td>108-88-3</td>
<td>&lt;0.5</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

Notes to Physician
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media
Carbon dioxide (CO2), Foam, Dry chemical, Water spray

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire. Water or foam may cause frothing.

Specific hazards arising from the chemical

**Hazardous combustion products** Carbon monoxide, Carbon dioxide (CO2)

**Combustion/explosion hazards** Flammable. Vapors may form explosive mixtures with air. Flash back possible over considerable distance. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed. 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**

**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.

**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>Exposure Limits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV</td>
<td>20 ppm TWA</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>OSHA PEL</td>
<td>200 ppm TWA</td>
<td></td>
</tr>
<tr>
<td>Canada - Alberta OELs</td>
<td>300 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 ppm TWA</td>
<td>Substance may be readily absorbed through intact skin</td>
</tr>
<tr>
<td>Canada - Ontario OELs</td>
<td>20 ppm TWA</td>
<td></td>
</tr>
<tr>
<td>Canada - British Columbia OELs</td>
<td>20 ppm TWA</td>
<td></td>
</tr>
<tr>
<td>NIOSH IDLH</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td>Mexico OEL</td>
<td>50 ppm TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>188 mg/m³ TWA (skin)</td>
<td></td>
</tr>
</tbody>
</table>

**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**
Gloves made of neoprene. Chemical resistant apron. Boots. 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.

**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>Mild</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93°C / &gt; 200 °F</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data 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 data available</td>
</tr>
<tr>
<td>Lower</td>
<td></td>
</tr>
<tr>
<td>Upper</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.08 - 1.12 @ 25°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble (Water)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</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.

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 irritation.

Corrosivity
Not corrosive.

Sensitization
Not sensitizing.

Mutagenic effects
No information available.
Carcinogenicity

**Toluene**

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

Reproductive Toxicity
No information available.

Neurological effects
No information available.

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

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

Target organ effects
None known.

Aspiration hazard
No information available.

Numerical measures of toxicity -

- **Unknown acute toxicity**
- 89.0 % of the mixture consists of ingredient(s) of unknown toxicity.
- mg/kg

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**
- 99.6 % 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

<table>
<thead>
<tr>
<th>DOT</th>
<th>Proper shipping name</th>
<th>NOT REGULATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>Proper shipping name</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>MEX</td>
<td>Proper shipping name</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>IATA</td>
<td>Proper shipping name</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>IMDG/IMO</td>
<td>Proper shipping name</td>
<td>NOT REGULATED</td>
</tr>
</tbody>
</table>

---

### 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:** This material contains components that are NOT listed on the Canadian Domestic Substances List (DSL)
- **Australian Inventory Status:** This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances
- **Korean Inventory Status:** This product contains only chemicals which are currently listed 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 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.

<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>&lt;0.5</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)

<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>

<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>&lt;0.5</td>
<td>Listed</td>
</tr>
</tbody>
</table>

CERCLA
This product does not contain components that have been assigned 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>
</tbody>
</table>

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

<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>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