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

Product identifier
Product Description: POLYLITE® HS 35060-00

Other means of identification
SAP ID(s): 195206 ; 195207; 203281
Material Code: 35060-00
Chemical Family Vinyl ester hybrid

Recommended use of the chemical and restrictions on use.
Recommended Use Corrosion Resistant Resin
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)

Acute toxicity - Oral Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2

Label elements
Emergency Overview
Warning

Hazard statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
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
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up

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 92.9 % of the mixture consists of ingredient(s) of unknown toxicity

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>Methacrylic Acid</td>
<td>79-41-4</td>
<td>1 - 3</td>
<td></td>
</tr>
<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 and percentage of composition 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

Most Important Symptoms and Effects  Irritating to eyes, respiratory system and skin.

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.

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

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/PERSOAL PROTECTION

Exposure limits

Methacrylic Acid (CAS #: 79-41-4)
ACGIH TLV
Canada - Alberta OELs 20 ppm TWA
Canada - Ontario OELs 20 ppm TWA
Canada - British Columbia OELs 70 mg/m³ TWA

Toluene (CAS #: 108-88-3)
ACGIH TLV
OSHA PEL
Canada - Alberta OELs 20 ppm TWA
300 ppm Ceiling
Canada - Ontario OELs 50 ppm TWA
188 mg/m³ TWA
Canada - British Columbia OELs Substance may be readily absorbed through intact skin

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><strong>Appearance</strong></td>
<td>Amber</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Viscous liquid</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 100°C</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Boiling point / boiling range</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Melting point / freezing point</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability Limit in Air</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.08 - 1.12 @ 25°C</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Insoluble (Water)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Oxidizing Properties</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Percent Volatile</strong></td>
<td>0.5 - 6.0 % by weight</td>
</tr>
<tr>
<td><strong>VOC Content</strong></td>
<td>29 g/l maximum</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>1400 - 2200 cps @ 25°C</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></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**
Methacrylic Acid

Oral LD50 = 1060 mg/kg (Rat)
Dermal LD50 = 500 mg/kg (Rabbit)
Inhalation LC50 = 7.1 mg/L (Rat) 4 h

Toluene

Oral LD50 = 5000 mg/kg (Rat)
Dermal LD50 = 8390 mg/kg (Rabbit)
Dermal LD50 = 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
Causes serious eye irritation.

Skin
Repeated exposure may cause skin dryness or cracking. Irritating to skin.

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
Irritating to eyes and respiratory system.

Corrosivity
Not corrosive.

Sensitization
Not sensitizing.

Mutagenic effects
No information available.

Carcinogenicity
No information available.

Toluene
ACGIH A4 - Not Classifiable as a Human Carcinogen

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)

Reproductive Toxicity
No information available.

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.

Aspiration hazard
No information available.

Unknown acute toxicity
92.9 % 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) 1663 mg/kg
ATEmix (dermal) 3883 mg/kg
ATEmix (inhalation-vapor) 39 mg/L
Ecotoxicity

Methacrylic Acid
Partition coefficient 0.93
Algae EC50 > 110 mg/l selenastrum capricornutum, OECD 201, 72 h
Fish LC50 > 79 mg/l Oncorhynchus mykiss, OECD 203, 96 h

Toluene
Partition coefficient 2.65
Algae EC50 = 12.5 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish LC50 = 12.6 mg/L (Pimephales promelas) (96 h) static
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) flow-through
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) static
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) flow-through
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) static
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) static
LC50 = 5.8 - 7.81 mg/L (Oncorhynchus mykiss) (96 h) static
Crustacea EC50 5.46 - 9.83 mg/L 48 h
EC50 = 11.5 mg/L 48 h

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
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 only chemicals which are currently listed 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

Japanese 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>&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)
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>&lt; 0.5</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 TPOs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>1000 lb</td>
<td></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

<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

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End of Safety Data Sheet

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