Canusa-CPS PE-1 Engineered Copolymer

SECTION 1. IDENTIFICATION

Product Identifier: Canusa-CPS PE-1 Engineered Copolymer
Product Family: Adhesives
Recommended Use: Adhesive.
Manufacturer/Supplier: CANUSA-CPS, A DIVISION OF SHAWCOR LTD., 25 BETHRIDGE ROAD, TORONTO, ON, M9W 1M7, (416) 743-7111
Emergency Phone No.: Canusa, (613) 996-6666 (CANUTEC)
SDS No.: 0236

SECTION 2. HAZARD IDENTIFICATION

Classification
Skin irritation - Category 3

Label Elements
Warning
May cause irritation to eyes, skin, and lungs.
Overheating may release harmful vapours.
If skin irritation occurs: Get medical advice or attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C6-20, polymers, hydrogenated</td>
<td>69430-35-9</td>
<td>10-30</td>
<td></td>
</tr>
<tr>
<td>Polyethylene, high-density</td>
<td>9002-88-4</td>
<td>1-10</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.2</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation
If exposed to fumes or gases during overheating, seek medical attention.

Skin Contact
Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell. For contact with hot material; flush with water and do not attempt to remove material from skin.

Eye Contact
Flush with water for 15 minutes. Get medical attention.

Ingestion
Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Product Identifier: Canusa-CPS PE-1 Engineered Copolymer
SDS No.: 0236
Date of Preparation: January 31, 2013
Extinguishing Media

Suitable Extinguishing Media
- Water spray; dry chemical; carbon dioxide; foam.

Specific Hazards Arising from the Product
Irritating and harmful vapours may be released during decomposition.
Very toxic carbon monoxide, carbon dioxide; organic acids; carboxylic acids; toxic, flammable aldehydes; alcohols; acrolein; corrosive phosphorous oxides; corrosive sulfur oxides.

Special Protective Equipment and Precautions for Fire-fighters
Use self-contained breathing apparatus during firefighting. Fight fire from a protected location; avoid high pressure, direct water stream that may spread molten or burning resins. Fight fire from a protected location; avoid high pressure, direct water stream that may spread molten or burning resins.
Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Wear appropriate personal protective equipment.

Environmental Precautions
It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up
Shovel into clean, dry, labelled containers and cover. Allow to cool and harden before placing it in a closed container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid heating above decomposition temperatures. Do not breathe fumes produced during overheating or burning.

Conditions for Safe Storage
Cool, dry environment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV®</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Polyethylene, high-density</td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>Not</td>
<td>Not</td>
<td>Not</td>
</tr>
<tr>
<td></td>
<td>established</td>
<td>established</td>
<td>established</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls
General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection
Wear chemical safety goggles and face shield when contact is possible.

Skin Protection
Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection
Not normally required if product is used as directed. Respiratory protection is recommended where product is overheated in poorly ventilated areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product Identifier: Canusa-CPS PE-1 Engineered Copolymer
SDS No.: 0236
Date of Preparation: January 31, 2013
Basic Physical and Chemical Properties

Appearance: Grey.
Odour: Oily
Melting Point/Freezing Point: 130 ºC (melting); 130 ºC (freezing)
Flash Point: 300 ºC
Relative Density (water = 1): 0.9
Decomposition Temperature: 300 ºC

Other Information
Physical State: Solid
Other Physical Property 1: Pelletized hot-melt adhesive.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability
Normally stable.

Conditions to Avoid
Excessive heat.

Incompatible Materials
Strong acids; oxidizing agents.

Hazardous Decomposition Products
Very toxic carbon monoxide, carbon dioxide; organic acids; carboxylic acids; very toxic, flammable aldehydes; alcohols; acrolein; corrosive phosphorous oxides; corrosive sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, high-density</td>
<td>2000 mg/kg (rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 6820 mg/m3 (rat) (4-hour exposure)</td>
<td>&gt; 25000 mg/kg (rat)</td>
<td>&gt; 10000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation
May cause irritation.

Serious Eye Damage/Irritation
Mechanical irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation
May cause irritation.

Ingestion
May cause irritation of the digestive tract.

Respiratory and/or Skin Sensitization
Prolonged inhalation may cause headache, dizziness and nausea.

Carcinogenicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH®</th>
<th>NTP</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td>Hydrocarbons, C6-20, polymers, hydrogenated</td>
<td>Not Listed</td>
<td>Not designated</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Polyethylene, high-density</td>
<td>Not Listed</td>
<td>Not designated</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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Titanium dioxide | Group 2B | A4 | Not Listed | Not Listed

Not known to cause cancer.

Key to Abbreviations
IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity**

**Sexual Function and Fertility**
Not known to cause effects on sexual function or fertility.

**Germ Cell Mutagenicity**
Not known to be a mutagen.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
No information was located.

**Acute Aquatic Toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50 Fish</th>
<th>EC50 Crustacea</th>
<th>ErC50 Aquatic Plants</th>
<th>ErC50 Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10 mg/L (Daphnia pulex (water flea); 48-hour; fresh water; static)</td>
<td>&gt; 100 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**
No information was located.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**
Dispose of in compliance with all federal, state, provincial, municipal and local legislation.

### SECTION 14. TRANSPORT INFORMATION


**Special Precautions**
Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable

### SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**
The regulatory information provided is not intended to be comprehensive. Other local, state, provincial, federal international or country specific regulations may apply to this material. This product has been classified in accordance with the hazard criteria of the controlled products regulations (CPR) and the MSDS contains all the information required by the CPR.

### SECTION 16. OTHER INFORMATION

**SDS Prepared By** SHAWCOR LTD.
**Phone No.** (416) 743-7111
**Date of Preparation** January 31, 2013
**Date of Last Revision** February 01, 2017
Key to Abbreviations

HSDB® = Hazardous Substances Data Bank
ACGIH® = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute for Occupational Safety and Health
OSHA = US Occupational Safety and Health Administration

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

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