MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name: Panlite® L-1225ZL
Version #: 01
Revision date: 03-24-2010
CAS #: 25971-63-5
MSDS Number: L1225ZL-0101Us
Product use: Molding material for industry use
Manufacturer/Supplier: TEIJIN CHEMICALS LTD.
2-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-8585, Japan
Corporate Social Responsibility Staff Office
Telephone number: +81 3-3506-4717
FAX number: +81 3-3580-6680
emergency telephone number: TEIJIN KASEI AMERICA, Inc. / +1-770-346-8949

2. Hazards Identification

OSHA regulatory status: This product is not hazardous according to OSHA 29CFR 1910.1200.
Potential health effects:
- **Eyes**: Dust in the eyes will cause irritation.
- **Skin**: Dust may irritate skin.
- **Inhalation**: Dust may irritate respiratory system or lungs.
- **Ingestion**: May cause discomfort if swallowed.
Target organs: Eyes. Respiratory system.
Potential environmental effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Non-hazardous Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate resin</td>
<td>25971-63-5</td>
<td>95-100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures:
- **Eye contact**: Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
- **Skin contact**: Rinse with water. Get medical attention promptly if symptoms persist or occur after washing. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.
- **Inhalation**: In case of inhalation of dusts or fumes from heated product: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
- **Ingestion**: Rinse mouth thoroughly. Large quantities: Get medical attention if symptoms occur.
- **Notes to physician**: Treat symptomatically.
- **General advice**: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Extinguishing media:
- **Suitable extinguishing media**: Extinguish with foam, carbon dioxide, dry powder or water fog.
- **Unsuitable extinguishing media**: None.
6. Accidental Release Measures

Protection of firefighters

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters
Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions
Avoid inhalation of dust. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions
Do not allow to enter drains, sewers or watercourses.

Methods for cleaning up
Collect and dispose of spillage as indicated in section 13 of the MSDS.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Avoid inhalation of dust. Avoid prolonged and repeated contact. Use work methods which minimize dust production. Wear appropriate personal protective equipment.

Storage
Store in closed original container in a dry place.

8. Exposure Controls / Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Exposure guidelines
ACGIH has limits for “nuisance dusts” which is TLV–TWA = 10 mg/m3.

Engineering controls
Provide adequate ventilation.

Personal protective equipment

Eye / face protection
Use tight fitting goggles if dust is generated. If contact with hot material may occur, safety glasses and face shield are recommended.

Skin protection
No protection is ordinarily required under normal conditions of use.

Respiratory protection
Wear respirator if there is dust formation. When the product is heated, use suitable respiratory equipment with gas filter for organic gas.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance
Pellets.

Color
Natural.

Odor
None.

Odor threshold
Not available.

Physical state
Solid.

Form
Pellets.

pH
Not applicable.

Melting point
> 464 °F (> 240 °C)

Freezing point
> 464 °F (> 240 °C)

Boiling point
Not applicable.

Flash point
> 971.6 °F (> 522 °C)

Evaporation rate
Not available.

Flammability
Not available.

Flammability limits in air, upper, % by volume
Not available.

Flammability limits in air, lower, % by volume
Not available.

Vapor pressure
Not applicable.

Vapor density
Not available.

Specific gravity
1.2

Relative density
Not available.
Solubility (water) Insoluble in water
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature > 1022 °F (> 550 °C)
Decomposition temperature Not available.
Molecular formula (C15H16O2.CCl2O)x.xC10H14O

10. Chemical Stability & Reactivity Information
Chemical stability Stable under normal temperature conditions.
Conditions to avoid None known.
Incompatible materials No data available.
Hazardous decomposition products During combustion: Carbon monoxide. Carbon Dioxide.
Possibility of hazardous reactions Will not occur.

11. Toxicological Information
Sensitization None known.
Acute effects May cause discomfort if swallowed.
Local effects Dust may irritate respiratory system or lungs. Dust in the eyes will cause irritation.
Carcinogenicity None known.
Mutagenicity None known.
Reproductive effects None known.
Teratogenicity None known.

12. Ecological Information
Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability None known.
Bioaccumulation / Accumulation None known.
Mobility in environmental media The product is insoluble in water and will sediment in water systems.

13. Disposal Considerations
Disposal instructions Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Waste from residues / unused products Dispose of in accordance with local regulations.
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information
DOT Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

15. Regulatory Information
US federal regulations This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA (Superfund) reportable quantity (lbs)
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard: No
- Delayed Hazard: No
- Fire Hazard: No
- Pressure Hazard: No
- Reactivity Hazard: No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
No

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

The information about colorant is not contained in this MSDS.

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
- Health: 0
- Flammability: 1
- Physical hazard: 0

NFPA ratings
- Health: 0
- Flammability: 1
- Instability: 0

Disclaimer
This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Issue date
03-24-2010