IDENTIFICATION

MSDS Record Number: 5618421
Product Name(s): Propylene Carbonate
Product Identification: MSDS NUMBER: P6873
PRODUCT CODE: U497
C.A.S. NUMBER: 108-32-7
Date of MSDS: 2007-05-25
Currency Note: This MSDS was acquired from the supplier on 2007-09-06.

MANUFACTURER/SUPPLIER INFORMATION

Company: MALLINCKRODT BAKER INC

MATERIAL SAFETY DATA

Effective Date: 05/25/07

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MSDS MATERIAL SAFETY DATA SHEET
===

CHEMTREC: 800-424-9300 (USA)
703-527-3887 (Outside USA & CANADA)

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865

CANUTEC: 613-996-6666

Emergency Telephone Number: 908-859-2151

NOTE: Use CHEMTREC and CANUTEC phone numbers only in the event of a chemical emergency.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

J. T. BAKER

=======================================================================
Propylene Carbonate

1. Product Identification

Synonyms: 1,3-Dioxolan-2-one, 4-methyl-
CAS No: 108-32-7
Molecular Weight: 102.09
Chemical Formula: C4H6O3
Product Codes: U497
2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Dioxolan-2-one, 4-methyl-</td>
<td>108-32-7</td>
<td>90 - 100%</td>
<td>Yes</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Emergency Overview

CAUTION: MAY CAUSE IRRITATION.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

<table>
<thead>
<tr>
<th>Health Rating</th>
<th>Flammability Rating</th>
<th>Reactivity Rating</th>
<th>Contact Rating</th>
<th>Lab Protective Equip</th>
<th>Storage Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Slight</td>
<td>1 - Slight</td>
<td>1 - Slight</td>
<td>1 - Slight</td>
<td>GOGGLES; LAB COAT; PROPER GLOVES</td>
<td>Green (General Storage)</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation:
Tightness and pain in chest, coughing, difficult breathing.

Ingestion:
None identified.

Skin Contact:
Prolonged contact may cause irritation.

Eye Contact:
Irritation.

Chronic Exposure:
No information found.

Aggravation of Pre-existing Conditions:
No information found.

4. First Aid Measures

Inhalation:
If a person breathes in large amounts, move the exposed person to fresh air.

Ingestion:
If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact:
In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

Eye Contact:
In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:
Flash point: 135C (275F) CC

Explosion:
No information found.

Fire Extinguishing Media:
Use extinguishing media appropriate for surrounding fire.

Special Information:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear suitable protective clothing. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush spill area with water.

7. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
None established.

Ventilation System:
In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved):
For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Do not use air purifying respirators or air purifying respirators with supplied air. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:
Wear protective gloves and clean body-covering clothing.

Eye Protection:
Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
9. Physical and Chemical Properties

Appearance: Colorless liquid.
Boiling Point: 241°C (466°F)

Odor: Odorless.
Melting Point: -49°C (-56°F)

Solubility: Moderate (1-10%)
Vapor Density (Air=1): Not applicable.

Specific Gravity: 1.20
Vapor Pressure (mm Hg): 0.03 @ 20°C (68°F)

pH: No information found.
Evaporation Rate (BuAc=1): No information found.

% Volatiles by volume @ 21°C (70°F): 0

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide.

Hazardous Polymerization:
Will not occur.

Incompatibilities:
Water, strong oxidizing agents.

Conditions to Avoid:
Air, heat.

11. Toxicological Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>- - - - - - NTP Carcinogen - - - - - -</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Known</td>
</tr>
<tr>
<td>1,3-Dioxolan-2-one, 4-methyl- (108-32-7)</td>
<td>No</td>
</tr>
</tbody>
</table>

12. Ecological Information

Environmental Fate:
No information found.

Environmental Toxicity:
No information found.
13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

---\Chemical Inventory Status - Part 1\---

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
<th>Japan</th>
<th>Australia</th>
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<tbody>
<tr>
<td>1,3-Dioxolan-2-one, 4-methyl- (108-32-7)</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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---\Chemical Inventory Status - Part 2\---

<table>
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<tr>
<th>Ingredient</th>
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<th>DSL</th>
<th>NDSL</th>
<th>Phil.</th>
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<tbody>
<tr>
<td>1,3-Dioxolan-2-one, 4-methyl- (108-32-7)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---\Federal, State & International Regulations - Part 1\---

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>-SARA 302-</th>
<th>----</th>
<th>-SARA 313----</th>
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</thead>
<tbody>
<tr>
<td>RQ</td>
<td>TPQ</td>
<td>List</td>
<td>Chemical Catg.</td>
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</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>-RCSA-</th>
<th>-TSCA-</th>
</tr>
</thead>
<tbody>
<tr>
<td>261.33</td>
<td>8(d)</td>
<td></td>
</tr>
</tbody>
</table>

1,3-Dioxolan-2-one, 4-methyl- (108-32-7)

Chemical Weapons Convention: No
TSCA 12(b): No
CDTA: No
SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Liquid)

Australian Hazchem Code: None allocated.
Australian Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings:
Health: 1 Flammability: 1 Reactivity: 1
Label Hazard Warning:
CAUTION! MAY CAUSE IRRITATION.

Label Precautions:
During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Label First Aid:
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

Product Use:
Laboratory Reagent.

Revision Information:
MSDS Section(s) changed since last revision of document include: 3, 15.

Disclaimer:
******************************************************************************
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P6673

October, 2007 Issue

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