Section 1 – Company Information

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 (914) 654-6899
parchem.com info@parchem.com

EMERGENCY RESPONSE NUMBER:
CHEMTEL - Parchem CCN# M1S0007152
Toll Free US & Canada: (800)255-3924
All other Origins: (813) 248-0585
Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Dimethyl Carbonate
CAS NUMBER 616-38-6
SYNONYM Methyl Carbonate
FORMULA C₃H₆O₃

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>100%</td>
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</tbody>
</table>

Section 3 – Hazards Identification

Emergency Overview
OSHA Hazards: Flammable Liquid
HMIS Classification
Health Hazard: 0
Flammability: 3
Physical hazards: 0
NFPA Rating
Health Hazard: 0
Fire: 3
Reactivity Hazard: 0

Potential Health Effects:
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Section 4 – First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Flammable properties:
Flash point: 16 °C (61 °F) - closed cup
Ignition temperature: no data available
Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.
Further information: Use water spray to cool unopened containers.

Section 6 – Accidental Release Measures

Personal precautions: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Section 7 – Handling & Storage

Handling: Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Air sensitive.

Section 8 – Exposure Controls & Personal Protection

Contains no substances with occupational exposure limit values.
Personal protective equipment:
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator.
cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** For prolonged or repeated contact use protective gloves.

**Eye protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**Section 9 – Physical & Chemical Properties**

**Appearance:**
- **Form:** liquid
- **Color:** colorless

**Safety data:**
- **pH:** no data available
- **Melting point:** 2 - 4 °C (36 - 39 °F)
- **Boiling point:** 90 °C (194 °F)
- **Flash point:** 16 °C (61 °F) - closed cup
- **Ignition temperature:** no data available
- **Lower explosion limit:** 4.22 %(V)
- **Upper explosion limit:** 12.87 %(V)
- **Vapor pressure:** 96 hPa (72 mmHg) at 37.8 °C (100.0 °F)
- **24 hPa (18 mmHg):** at 21.1 °C (70.0 °F)
- **Density:** 1.069 g/mL at 25 °C (77 °F)
- **Water solubility:** insoluble
- **Relative Vapor Density:** 3.11 - (Air = 1.0)

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**Section 10 – Stability & Reactivity Data**

**Storage stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Heat, flames and sparks.

**Materials to avoid:** Oxidizing agents, Strong acids, Strong bases

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Hazardous reactions:** Vapors may form explosive mixture with air.

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**Section 11 – Toxicological Information**

**Acute toxicity:**
- **LD50 Oral - rat:** 13,000 mg/kg
- **LD50 Dermal - rabbit:** > 5,000 mg/kg
Irritation and corrosion: no data available
Sensitisation: no data available
Chronic exposure:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects:
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Additional Information: RTECS: FG0450000

Section 12 – Ecological Information

Elimination information (persistence and degradability): no data available
Ecotoxicity effects: no data available
Further information on ecology: no data available

Section 13 – Disposal Consideration

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging: Dispose of as unused product.

Section 14 – Transportation Data

DOT (US):
UN-Number: 1161
Class: 3
Packing group: II
Proper shipping name: Dimethyl carbonate
Marine pollutant: No
Poison Inhalation Hazard: No
IMDG:
UN-Number: 1161
Class: 3
Packing group: II
EMS-No: F-E, S-D
Proper shipping name: DIMETHYL CARBONATE
Marine pollutant: No

**IATA:**
UN-Number: 1161
Class: 3
Packing group: II
Proper shipping name: Dimethyl carbonate

### Section 15 – Regulatory Information

**OSHA Hazards:** Flammable Liquid

**DSL Status:** All components of this product are on the Canadian DSL list.

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Fire Hazard

**Massachusetts Right To Know Components:**
Dimethyl carbonate
CAS-No. 616-38-6

**Pennsylvania Right To Know Components:**
Dimethyl carbonate
CAS-No. 616-38-6

**New Jersey Right To Know Components:**
Dimethyl carbonate
CAS-No. 616-38-6

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

### Section 16 – Other Information

**Disclaimer**
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.