Section 1 - Product and Company Information

Product Name                       DIPHENYL CARBONATE, 99%
Product Number                     D206539
Brand                               ALDRICH
Company                             Sigma-Aldrich
Street Address                     3050 Spruce Street
City, State, Zip, Country          SAINT LOUIS MO 63103 US
Technical Phone:                   314 771 5765
Emergency Phone:                   414 273 3850 Ext. 5996
Fax:                                800 325 5052

Section 2 - Composition/Information on Ingredient

Substance Name                          CAS #       SARA 313
DIPHENYL CARBONATE                      102-09-0    No

Formula         C13H10O3
Synonyms        Diphenyl carbonate * Phenyl carbonate * Phenyl carbonate ((PhO)2CO)
RTECS Number:   FG0500000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
    Harmful.
    Harmful in contact with skin and if swallowed.
    Possible sensitizer.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
    If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE
    If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 - Fire Fighting Measures

FLASH POINT
334.4 °F   168 °C   Method: closed cup

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A
EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Use only in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT
Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

GENERAL HYGIENE MEASURES
Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>At Temperature or Pressure</th>
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<tbody>
<tr>
<td>Molecular Weight</td>
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<tr>
<td>pH</td>
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<td>760 mmHg</td>
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<td>MP/MP Range</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Saturated Vapor Conc.</td>
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<tr>
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<tr>
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<tr>
<td>Volatile%</td>
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</tr>
</tbody>
</table>
**Section 10 - Stability and Reactivity**

**STABILITY**
Stable: Stable.  
Materials to Avoid: Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS**
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

**HAZARDOUS POLYMERIZATION**
Hazardous Polymerization: Will not occur

**Section 11 - Toxicological Information**

**ROUTE OF EXPOSURE**
Skin Contact: May cause skin irritation.  
Eye Contact: May cause eye irritation.  
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Multiple Routes: Harmful if swallowed or absorbed through skin.

**SENSITIZATION**
Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**SIGNS AND SYMPTOMS OF EXPOSURE**
Prolonged exposure can cause: Lung irritation. Dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**TOXICITY DATA**

**Oral**

Rat
1500 mg/kg
LD50
Remarks: Behavioral: Convulsions or effect on seizure threshold.

**CHRONIC EXPOSURE - CARCINOGEN**

Species: Mouse Mouse  
Route of Application: Oral Oral  
Dose: 28 GM/KG 28 GM/KG
Exposure Time: 78W 78W
Frequency: I I

Species: Mouse Mouse
Route of Application: Subcutaneous Subcutaneous
Dose: 1000 MG/KG 1000 MG/KG

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: Xn
Indication of Danger: Harmful.
R: 22
Risk Statements: Harmful if swallowed.
S: 22 24/25
Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Harmful.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No
TSCA INVENTORY ITEM: Yes Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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