

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** DIMETHYL CARBONATE

**Control Number:** 00195

**Product Description:** Carbonate Salt

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.

916 West Lathrop Avenue

Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC

**General Information:** (912) 236-1331

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

[ Health ]

[ Environmental ]

[ Physical ]

Flammable liquids Category 2

### GHS Label elements, including precautionary statements

### Pictograms



**Signal Word:** Danger

### Hazard statement(s)

H225 Highly flammable liquid and vapor.

### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Dimethyl Carbonate	616-38-6	100

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## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eyes:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get immediate medical attention.

**Skin:** Immediately flush contaminated areas with water. Wash affected area with soap and water. If irritation persists, seek medical attention.

**Inhalation:** Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous combustion products:** Oxides of carbon and various hydrocarbons.

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** containers exposed to the heat of a fire may rupture or explode.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup 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. Air sensitive.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Dimethyl Carbonate Contains no substances with occupational exposure limit values.

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** 61 °F  
**Autoignition Temperature:** No available data  
**Boiling Point:** 194 °F  
**Melting/Freezing Point:** 36-39 °F  
**Vapor Pressure:** 72 mmHg  
**Vapor Density (Air-1):** 3.1  
**Odor/Appearance:** Colorless liquid with no appreciable odor

**Flammability Limits:** Lower: 4 Upper: 13  
**Specific Gravity:** 1.07  
**Volatile %:** No available data  
**Evaporation Rate (Water=1):** No available data  
**pH:** No available data  
**Solubility in Water:** Complete

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Exposure to moisture. Heat, flames and sparks. Extremes of temperature.  
**Incompatible materials:** Oxidizing agents, Strong acids, Strong bases  
**Hazardous Polymerization:** Will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** May cause slight skin irritation.

**Eyes:** May cause eye irritation, that if untreated can be severe and permanent.

**Inhalation:** May cause slight respiratory irritation.

**Ingestion:** Ingestion may cause irritation and burns from the mouth to the stomach. Ingesting massive amounts may cause ulcerations, vomiting, and death from shock.

### Acute oral toxicity:

Dimethyl Carbonate: LD50 rat: 13,000 mg/kg

### Acute inhalation toxicity:

Dimethyl Carbonate: LD50 rat: No available data

### Acute dermal toxicity:

Dimethyl Carbonate: LD50 rabbit; 5,000 mg/kg

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** LC50 - Pimephales promelas (fathead minnow) - < 510 mg/l - 96 h

**Bio-accumulative potential:** This product is readily biodegradable.

**Mobility:** Not considered to be mobile.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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## SECTION 14 · TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Dimethyl carbonate  
**Hazard Class:** 3  
**UN Number:** 1161  
**Packaging Group:** 2

## SECTION 15 · REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

**SARA 302: SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Fire Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** 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.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA

**Clean Air Act:** None of the chemicals in this product are listed as Hazardous Substances under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 · OTHER INFORMATION

**MSDS Revision Date:** January 2015

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 0

**Flammability:** 3

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.