

**Revision number:** 1 Revision date: 07/06/2018

#### **1. IDENTIFICATION**

Product name: Product code:

Product use: **Restrictions on use:** 

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: + е S ۷

# 2.

SAFETY	DATA	SHE

**Dimethyl Carbonate** 

For laboratory research purposes.

Not for drug or household use.

C0053

+1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com	+1-703-527-3887 (International) <b>Responsible department:</b> TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION	
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Flammable Liquids [Category 2]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection.
[Response]	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, dry sand or foam to extinguish.
[Storage] [Disposal]	Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:

Substance **Dimethyl Carbonate** >98.0%(GC) 616-38-6 90.08 C3H6O3 Carbonic Acid Dimethyl Ester Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical		
Skin contact:	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.		
Symptoms/effects:			
Acute:	No data available No data available		
Delayed:			
Indication of any immediate medical attention of available.	ention:		
Notes to physician: No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Unsuitable extinguishing media:	Solid streams of water		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.		
Environmental precautions:	Prevent product from entering drains.		
Methods and materials for containment and cleaning up:	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be		
	promptly disposed of, in accordance with appropriate laws and regulations.		
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eves and clothing.		
Conditions for safe storage, including a			
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture.		
	Store away from incompatible materials such as oxidizing agents. Moisture-sensitive		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.		
Personal protective equipment			

Personal protective equipment	
Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICA	L PROPERTIES		
Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Aln Pleasant No data availat No data availat	le	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	4°C (39°F) 90°C (194°F) No data available 1.07 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 3.1 No data available No data available
Flash point: Flammability(solid, gas):	17°C (63°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	458°C (856°F) 4.2% 12.9%
Solubility(ies): [Water] [Other solvents] Miscible: Soluble:	Insoluble Ether, Alcohols Many organic s		
10. STABILITY AND REACTIVITY			
Reactivity:No data availableChemical stability:Stable under proper conditiPossibility of hazardous reactions:No special reactivity has beConditions to avoid:Spark, Open flame, Static ofIncompatible materials:Oxidizing agents, Strong baHazardous decomposition products:Carbon dioxide, Carbon mode		oper conditions. trivity has been reported. ame, Static discharge ts, Strong bases	
11. TOXICOLOGICAL INFORM	MATION		
RTECS Number: FG0450000			
Acute Toxicity: ipr-rat LD50:1600 mg/kg skn-rbt LD50:>5 g/kg		orl-rat LD50:13 g/kg	
Skin corrosion/irritation: No data available			
Serious eye damage/irritation: No data available			
Desningtony on alsin constitution			

No data available

No data available

OSHA:

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

> No data available IARC:

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

**TCI AMERICA** 

### 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM 3/mol):	63

13. DISPOSAL CONSIDERATIONS	
Listed waste	U238/Ethyl acrylate (I)
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

HMIS Classification: Health:

Flammability:

Physical:

0

3

0

### 14. TRANSPORT INFORMATION

DOT (US) UN number: UN1161	Proper Shipping Name: Dimethyl carbonate	Class or Division: 3 Flammable liquid	Packing Group:
<u>IATA</u> UN number: UN1161	Proper Shipping Name: Dimethyl carbonate	Class or Division: 3 Flammable liquid	Packing Group:
IMDG UN UN1161 numb er:	Proper Shipping Name: Dimethyl carbonate	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
EmS number:	F-E, S-D		

### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

On DSL

210-478-4

#### **US Federal Regulations**

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed

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SARA 302:	Not Listed
State Regulations	
State Right-to-Know	
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
California Proposition 65:	Not Listed
Other Information	
NFPA Rating:	

Health:	0		
Flammability:	3		
Instability:	0		
International Inventoriaa			

### 16. OTHER INFORMATION

#### Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.