



Material Safety Data Sheet
Dimethyl carbonate

Section 1: Chemical Product and Company Identification	
Product Name	Dimethyl carbonate
CAS#	616-38-6
Synonym	Methyl carbonate
Company	Cocreate Global Technologies Private Limited (Scimplify)
Registered address	L73, Attic Space, 15th Cross Road, Sector 6, HSR Layout, Bangalore Urban- 560102, Karnataka, India

Section 2: Composition and Information on Ingredients

Component | CAS No | Weight %
Dimethyl carbonate | 616-38-6 | >95

Section 3: Hazards Identification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids
Category 2

Label Elements
Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor

Section 4: First Aid Measures

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation
Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion
Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects
Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician
Treat symptomatically

Section 5: Fire and Explosion Data

Suitable Extinguishing Media
Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Section 6: Accidental Release Measures

Personal Precautions
Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions
Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7: Handling and Storage

Handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat, sparks and flame. Store under an inert atmosphere. Incompatible Materials. Acids. Bases. Reducing Agent. Oxidizing agent.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Section 9: Physical and Chemical Properties

Appearance

Liquid

Physical State

Clear

Color

Clear

Odor

Characteristic

Odor Threshold

No information available

Property | Values | Remarks | Method

Meltin

2 - 4 °C / 35.6 - 39.2 °F

Softening Point

No data available

Boiling Point/Range

90 °C / 194 °F

@ 760 mmHg

Flash Point

18 °C / 64.4 °F

Method - No information available

Flammability (liquid)

Highly flammable

On basis of test data

Flammability (solid,gas)

Not applicable

Explosion Limits

Lower

4.22 Vol%

Upper

12.87 Vol%

Sensitivity to Mechanical Impact

No information available

Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

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

NFPA

Health

0

Flammability

3

Instability

1

Physical hazards

N/A

Section 10: Stability and Reactivity Data

Stability

Air sensitive.

Conditions to Avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air. Exposure to moist air or water.

Incompatible Materials

Acids, Bases, Reducing Agent, Oxidizing agent

Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization

No information available.

Hazardous Reactions

None under normal processing.

Section 11: Toxicological Information

Information on expected route of exposure

Inhalation

May cause irritation of respiratory tract.

Ingestion

May cause irritation.

Eyes

May cause irritation.

Skin

May cause irritation.

Toxicology data for the components

Component | LD50 Oral | LD50 Dermal | LC50 Inhalation

Dimethyl carbonate | LD50 > 5000 mg/kg (Rat) OECD 401 | LD50 > 5 g/kg (Rabbit) | LC50 > 5.36 mg/L (Rat) 4 h

Toxicologically Synergistic Products

No information available

(b) skin corrosion/irritation;

Based on available data, the classification criteria are not met

(c) serious eye damage/irritation;

Based on available data, the classification criteria are not met

(d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

(e) germ cell mutagenicity;

Based on available data, the classification criteria are not met

(f) carcinogenicity;

Based on available data, the classification criteria are not met

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico

Dimethyl carbonate | 616-38-6 | Not listed | Not listed | Not listed | Not listed | Not listed

(g) reproductive toxicity;

Based on available data, the classification criteria are not met

(h) STOT-single exposure;

Based on available data, the classification criteria are not met

(i) STOT-repeated exposure;

Based on available data, the classification criteria are not met

Section 12: Ecological Information

Ecotoxicity

Do not empty into drains. .

Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea

Dimethyl carbonate | Not listed | LC50: >= 100 mg/L, 96h flow-through (Danio rerio) | Not listed | Not listed

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component | Log Pow

Dimethyl carbonate | 0.354

Section 13: Disposal Considerations

Waste Disposal Methods

Should not be released into the environment.

Section 14: Transport Information

DOT

UN-No

UN1161

Proper Shipping Name

DIMETHYL CARBONATE

Hazard Class

3

Packing Group

II

TDG

UN-No

UN1161

Proper Shipping Name

DIMETHYL CARBONATE

Hazard Class

3
Packing Group
II

IATA
UN-No
UN1161
Proper Shipping Name
DIMETHYL CARBONATE
Hazard Class
3
Packing Group
II

IMDG/IMO
UN-No
UN1161
Proper Shipping Name
DIMETHYL CARBONATE
Hazard Class
3
Packing Group
II

Section 15: Other Regulatory Information

United States of America Inventory
Component | CAS No | TSCA | TSCA Inventory notification - | TSCA - EPA Regulatory
Dimethyl carbonate | 616-38-6 | X | |

Legend:

TSCA - US EPA (TSCA) - Toxic Substances Control Act. (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICIS), China (ECSC), Korea (KECL).

Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICIS | IECSC | KECL

Dimethyl carbonate | 616-38-6 | X | - | 210-478-4 | X | X | X | X | X | X | KE-11278

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island

Dimethyl carbonate | X | X | X | - | -

U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

DOT Severe Marine Pollutant

N

Section 16: Other Information

Revision no : 01

Revision date: 01-06-2026

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text