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Version number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Revision: 07.03.2023

<ul> <li>Prade name: <u>dimethyl carbonate</u></li> <li>Article number: 1324</li> <li>CAS Number:</li> <li>OLS Number:&lt;</li></ul>	· 1.1 Product	identifier
<ul> <li>CAS Number: 616-38-6 </li> <li>EC number: 210-478-4 <ul> <li>Index number: 007-013-00-6</li> <li>Registration number 01-2119980035-39</li> <li>Registration number 01-2119980035-39</li> </ul> </li> <li>Registration number 01-2119980035-39</li> <li>I.2 Redevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Solvent for various applications</li> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Molifier Chemic GmbH &amp; Co. KG Bitrgerkamp I D-48565 Steinfurt Tel: 02551/9340-60</li> <li>Further information obtainable from: Product safety department</li> <li>1.4 Emergency telephone number: Poison Control Center Main: - 24 hour emergency service - Tel.: +49 (0) 6131/19240</li> </ul> SECTION 2: Hazards identification SECTION 2: Hazards identification Gilso2 GHS02 flame Flam. Lig. 2 H225 Highly flammable liquid and vapour. Cassification according to Regulation (EC) No 1272/2008 Fase is classified and labelied according to the CLP regulation. Hazard statements Hazard statements Pactor is classified and labelied according to the CLP regulation. Hazard statements Pactorians Pactor	· Trade name:	: dimethyl carbonate
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### · 2.3 Other hazards

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

### · Results of PBT and vPvB assessment

· PBT:

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· vPvB:

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

**SECTION 3: Composition/information on ingredients** 

### · 3.1 Substances

- · CAS No. Description
- 616-38-6 dimethyl carbonate
- · Identification number(s)
- · EC number: 210-478-4
- · Index number: 607-013-00-6

## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:
- Take off dirty, soaked clothes immediately.
- Personal protection for the First Aider.

Show this safety data sheet to the doctor in attendance.

- · After inhalation: Supply fresh air, consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water.
- Remove any existing contact lenses if possible. Continue rinsing.
- Seek immediate medical advice.
- *After swallowing:* Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture
- *In case of fire, the following can be released: Carbon monoxide, carbon dioxide*
- 5.3 Advice for firefighters Do not inhale explosion gases and fumes
- · Protective equipment: Wear self-contained respiratory protective device.

### **SECTION 6:** Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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(Contd. of page 2) Keep away from ignition sources. Ensure adequate ventilation Avoid contact with eyes and skin · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. • 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. **SECTION 7: Handling and storage** · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep away from heat and sources of ignition • 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: No special requirements. Store in a cool location. • Information about storage in one common storage facility: Store away from oxidising agents. • Further information about storage conditions: Store in a dry, cool and well-ventilated place. Store only in the original container. *Keep container tightly closed, dry, at 15 - 20 ° C.* Store only outside or in explosion proof rooms. · Storage class: 3 flammable • 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- *Appropriate engineering controls* No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Be sure to clean skin thoroughly after work and before breaks.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

· Body protection: flame retardant antistatic protective clothing

# **SECTION 9: Physical and chemical properties**

General Information		
Colour:	Colourless	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	4.6 °C	
Boiling point or initial boiling point and	d boiling	
range	90.2 °C (1013 hPa)	
Lower and upper explosion limit		
Lower:	4.22 Vol %	
Upper:	12.87 Vol %	
Flash point:	14 °C (1013 hPa)	
Ignition temperature:	458 °C	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic at 20 °C:	0.625 mPas (1000 hPa)	
Solubility		
water at 20 °C:	138 g/l	
Partition coefficient n-octanol/water (lo		
20 °C	0.354 log POW	
Vapour pressure at 20 °C:	57.1 hPa	
Density and/or relative density		
Density at 20 °C:	$1.07 \ g/cm^3$	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information	No further relevant information available.	
Appearance:		
Form:	Fluid	
Important information on protection of	f health and	
environment, and on safety.		
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product is not explosive. However, formation of	
	explosive air/vapour mixtures are possible.	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical has	zard classes	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
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		(Contd. of page 4)
· Flammable liquids		
Highly flammable liquid and vapour.		
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamma	ıble	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

### · 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid warming
- 10.5 Incompatible materials: Strong oxidizing agents

Reducing agent

• 10.6 Hazardous decomposition products:

Poisonous gases/vapours

Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Dermal LD50 >5.000 mg/kg (rabbit)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure Based on available data, the classification criteria are not met.

• STOT-repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties Substance is not listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity:
- LC50/96 h > 100 mg/l (fish)
- EC50/48 h > 100 mg/l (Daphnia magna)

• 12.2 Persistence and degradability No further relevant information available.

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- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- PBT: The product is not considered to be persistent, bioaccumulating nor toxic (PBT).
- *vPvB*: The product is not considered to be persistent or very bioaccumulative (vPvB).
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations** 

• 13.1 Waste treatment methods

• *Recommendation Disposal according to local regulations.* 

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1161
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1161 DIMETHYL CARBONATE DIMETHYL CARBONATE
• 14.3 Transport hazard class(es)	
· ADR	
· Class	3 (F1) Flammable liquids.
· Label · IMDG, IATA	3
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D
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	(Contd. of page
Stowage Category	В
· 14.7 Maritime transport in bulk according	to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
• Tunnel restriction code	D/E
·IMDG	
· Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1161 DIMETHYL CARBONATE, 3, II

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category
- P5c

FLAMMABLE LIQUIDS

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Department issuing SDS: Product safety department

· Contact: Mrs. Steyer

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- *LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent*
- *PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2