

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Orthocryl-liquid

Revision date: 07.05.2025 Product code: 161-100 Page 1 of 12

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

# 1.1. Product identifier

Orthocryl-liquid

## Further trade names

Article No.: 160-501-00, 160-502-00, 160-600-00, 160-700-00, 161-100-00, 161-127-00, 161-128-00, 161-129-00, 161-130-00, 161-131-00, 161-132-00, 161-133-00, 161-134-00, 161-135-00, 161-136-00,

161-137-00, 161-138-00, 161-139-00, 161-150-00, 161-300-00, 161-350-00, 161-912-00

UFI: 3PJJ-3H35-6894-87X3

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

Health services.

# 1.3. Details of the supplier of the safety data sheet

Company name: DENTAURUM GmbH & Co. KG Supplier: DENTAURUM Australia Pty

Street: Turnstr. 31 ABN: 79 055 919 787

Place: D-75228 Ispringen Street address: 18 Bertram St, Mortlake NSW 2137

Telephone: +49 7231 803 0 Telephone: +61 2 9743 4811
E-mail: info@dentaurum.de Fax No: +61 2 9743 4599
Contact person: chemistry Contact: Materials Manager

Internet: www.dentaurum.com

**1.4. Emergency telephone** +497231803-184 7:00-16:15 (Mo-Do) 7:00-13:15 (Fr) number: +497231803-0 16:15-18:00 (Mo-Do) 13:15-18:00 (Fr)

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

#### Regulation (EC) No 1272/2008

## Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate ethylene dimethacrylate

N,N-dihydroxyethylene-p-toluidine 2-(2H-Benzotriazol-2-yl)-p-cresol

Signal word: Danger

# Pictograms:





#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.



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# **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

## 2.3. Other hazards

none

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

### 3.2. Mixtures

### **Chemical characterization**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

red, pink-transparent: colour index S.R.111, S.R.52

green: colour index S.B.97, S.Y.93

blue: colour index S.B. 97 yellow: colour index S.Y. 93

hot pink: colour index D.V.26, Perylene dye

turquoise: colour index S.B. 67

emerald green: colour index S.B. 67, S.Y. 93

violet: colour index S.B. 97, S.V. 36 neon orange: colour index S.Y. 98

neon yellow: colour index S.Y. 98, S.O.112

neon pink: colour index S.R. 52

neon green: colour index S.B. 67, S.Y. 98

neon blue: colour index S.B. 104

#### Relevant ingredients

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No	1272/2008)				
80-62-6	methyl methacrylate; methyl 2-meth	nylprop-2-enoate; methyl 2-methylpro	penoate	90 - < 95 %		
	201-297-1	607-035-00-6				
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335					
97-90-5	ethylene dimethacrylate					
	202-617-2	607-114-00-5				
	Skin Sens. 1, STOT SE 3; H317 H335					
3077-12-1	N,N-dihydroxyethylene-p-toluidine					
	221-359-1					
	Acute Tox. 4, Eye Dam. 1, Skin Ser	ns. 1B, Aquatic Chronic 3; H302 H31	8 H317 H412			
2440-22-4	2-(2H-Benzotriazol-2-yl)-p-cresol					
	219-470-5					
	Skin Sens. 1B, Aquatic Chronic 1; H317 H410					

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	90 - < 95 %
	dermal: LD50	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
97-90-5	202-617-2	ethylene dimethacrylate	5 - < 10 %
	STOT SE 3; H	STOT SE 3; H335: >= 10 - 100	
3077-12-1	221-359-1	N,N-dihydroxyethylene-p-toluidine	< 1 %
	oral: LD50 = 3	300 mg/kg	

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Call a physician immediately.

## 4.2. Most important symptoms and effects, both acute and delayed

Causes skin and eye irritation. Skin sensitisation

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, ABC-powder.

# Unsuitable extinguishing media

Full water jet.

# 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

# Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.



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### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### 6.3. Methods and material for containment and cleaning up

### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8 Disposal: see section 13 Disposal: see section 13

Safe handling: see section 7

Personal protection equipment: see section 8

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid breathing vapours.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Use non-sparking tools.

# Advice on general occupational hygiene

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep/Store only in original container. Protect against: Light.

## Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

# 7.3. Specific end use(s)

none

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

# 8.2. Exposure controls



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### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye protection/face protection. Tightly sealed safety glasses.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommendation:

Dermatril 740 Single-use gloves. NBR (Nitrile rubber). 0,11 mm

penetration time (maximum wearing period): 0 min.

REF 162-907-00 (7/S), REF 162-908-00 (8/M), REF 162-909-00 (9/L)

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Camapren 720, 0,65 mm

penetration time (maximum wearing period): > 10 min, KCL

### Skin protection

Protective clothing

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. Do not breathe mist/vapours/spray.

#### Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

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

# 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: various, depending on coloration

Odour: like: ester

Melting point/freezing point:

-48 °C

Boiling point or initial boiling point and

100,3 °C

boiling range:

Flammability: No data available Lower explosion limits: 2,1 vol. % 12,5 vol. % Upper explosion limits: 10 °C Flash point: 430 °C Auto-ignition temperature: Decomposition temperature: No data available pH-Value: not applicable No data available Viscosity / kinematic: Water solubility: 15.9 a/l

(at 20 °C)

Solubility in other solvents

miscible with most organic solvents

Partition coefficient n-octanol/water: 0,7



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Vapour pressure: 38,7 hPa

(at 20 °C)

Vapour pressure: 157 hPa

(at 50 °C)

Density (at 20 °C): 0,94 g/cm³

Bulk density: No data available

Relative vapour density: 3,5

(at 20 °C)

Particle characteristics: not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

No data available

Sustained combustibility: No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate: No data available Solvent separation test: No data available Solvent content: > 95% Solid content: No data available Sublimation point: No data available Softening point: No data available No data available Pour point: Brookfield 0.63 mPa·s Viscosity / dynamic:

(at 20 °C)

Flow time: No data available

**Further Information** 

Odour threshold: 0,5 - 1,0 ppm

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Highly flammable. No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

# 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

## 10.5. Incompatible materials

Reducing agent Amines. Heavy metals. Peroxides Oxidizing agent.

# 10.6. Hazardous decomposition products

none



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#### **Further information**

Thermal decomposition: at room temperature none

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Acute toxicity (inhalant): 7093 ppm 4h

#### **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	oral	LD50 > 5000 mg/kg	Rat			
	dermal	LD50 > 5000 mg/kg	Rabbit			
3077-12-1	N,N-dihydroxyethylene-p-toluidine					
	oral	LD50 300 mg/kg	Rat	OECD 401		

#### Irritation and corrosivity

Irritant effect on the skin: non-irritant. 24h Irritant effect on the eye: non-irritant.

# Sensitising effects

May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Longterm experiments do not indicate carcinogenic effects. No experimental evidence of in vitro mutagenicity.

## STOT-single exposure

May cause respiratory irritation.

# 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**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

### 12.1. Toxicity

: 37 mg/L 8d

Pseudomonas putida 100 mg/L



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate						
	Acute fish toxicity	LC50 mg/l	> 79		Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50	69 mg/l	48 h			
97-90-5	ethylene dimethacrylate						
	Acute fish toxicity	LC50 mg/l	15,95	96 h	Danio rerio (zebrafish)		
	Acute crustacea toxicity	EC50 mg/l	44,9	48 h			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

none

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

## **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Send to a hazardous waste incinerator facility under observation of official regulations.

## List of Wastes Code - used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08);

waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent

mixtures; hazardous waste

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number: UN 1247

14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3





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Classification code:	F1	

Classification code: F1
Special Provisions: 386
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 339
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1247

14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 386
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1247

14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 386

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1247

14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A209
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards



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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid. Yes.

14.7. Maritime transport in bulk according to IMO instruments

Authorisations: SECTION 15: Regulatory information

# **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive

2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**Additional information** 

This mixture contains the following substances of very high concern (SVHC) which are included in the

Candidate List according to Article 59 of REACH: none

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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

# Changes

This data sheet contains changes from the previous version in section(s):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Indication of changes:

SECTION 2: Hazards identification

SECTION 4: First aid measures

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

**SECTION 14: Transport information** 

SECTION 15: Regulatory information



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## Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Dam: Eye damage Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Chronic: Chronic aquatic hazard CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations). EC/EEC: European Community/European Economic Community

EU: European Union M-factor: Multiplying factor

IATA: International Air Transport Association DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions



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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)