



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 1 of 12

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

#### 1.1 Product identifier

Trade name: Glanzöl

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

General use: For cleaning and disinfection of prosthetic work and equipment

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

Company name: Marcadent GmbH  
Street/POB-No.: Bernhard Hahn Str. 30  
Postal Code, city: 41812 Erkelenz  
Germany  
WWW: www.marcadent.de  
E-mail: info@marcadent.de  
Telephone: +49 (0)2431-80 558-45  
Telefax: +49 (0)2431-80 558-63  
Dept. responsible for information:  
Telephone: +49 (0)2431 8055845, E-mail: info@marcadent.de

#### 1.4 Emergency telephone number

Telephone: +49 (0)2431 8055845  
Only available during office hours.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 2; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
STOT SE 3; H336 May cause drowsiness or dizziness.  
(EUH066) Repeated exposure may cause skin dryness or cracking.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Danger**

Hazard statements: H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 2 of 12

### Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapours.
P280	Wear protective gloves and eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling: Contains Ethyl acetate, Isopropyl alcohol.

### 2.3 Other hazards

Higher doses may have a narcotic effect.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Potentially explosive mixtures may form if adequate ventilation is not provided.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 205-500-4 CAS 141-78-6	Ethyl acetate	< 40 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).
EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol	< 30 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek medical attention.  
Remove victim out of the danger area.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 3 of 12

- Following skin contact: Immediately remove all contaminated clothing. Thoroughly wash skin with soap and water. In case of skin irritation, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After swallowing: Do not induce vomiting. Danger of aspiration!  
Rinse mouth immediately and drink plenty of water.  
Never give anything by mouth to an unconscious person.  
Keep airway open. Immediately get medical attention.

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

Causes serious eye irritation. May cause drowsiness or dizziness.

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

Treat symptomatically.

Attention in case of vomiting and stomach pumping: danger of aspiration. Accelerate intestinal transit.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

### 5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

Liquid evaporates very quickly. Vapours form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Hazchem-Code: •3YE

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.

Move container away or cool with water from a protected position. Use water spray jet to knock down vapours.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 4 of 12

### SECTION 6: Accidental release measures

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

Remove all sources of ignition.  
Avoid contact with the substance.  
Wear appropriate protective equipment. Keep unprotected people away.  
Do not breathe vapours. Provide adequate ventilation.

#### 6.2 Environmental precautions

Do not empty into drains. Danger of explosion!  
Separation possible by separator. If necessary notify appropriate authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.  
Provide adequate ventilation.

In case of spills of large quantities:

Seal off. Plug leak if safely possible. Dam spills and pump to remove. Explosion protection required. Close all lower level rooms. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.

Additional information: Use only spark proof tools. Beware of reignition.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Do not allow containers to stand open.  
Provide adequate ventilation, and local exhaust as needed.  
Avoid contact with skin and eyes. Do not breathe vapours.  
Wear appropriate protective equipment.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Beware of reignition. Do not weld. Use explosion-proof equipment and non-sparking tools/utensils.

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

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Keep away from sources of ignition and heat.  
Keep only in the original container.  
Protect from heat and direct sunlight.  
Store containers in upright position. Explosion protection required.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.  
Keep away from food, drink and animal feedingstuffs.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

## Glanzöl

Material number 07

Revision date: 17/1/2018

Version: 6

Language: en-GB,IE

Date of print: 8/3/2018

Page: 5 of 12

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
141-78-6	Ethyl acetate	Europe: IOELV: STEL	1468 mg/m <sup>3</sup> ; 400 ppm
		Europe: IOELV: TWA	734 mg/m <sup>3</sup> ; 200 ppm
		Great Britain: WEL-STEEL	1460 mg/m <sup>3</sup> ; 400 ppm
		Great Britain: WEL-TWA	730 mg/m <sup>3</sup> ; 200 ppm
		Ireland: 15 minutes	400 ppm
		Ireland: 8 hours	200 ppm
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEEL	1250 mg/m <sup>3</sup> ; 500 ppm
		Great Britain: WEL-TWA	999 mg/m <sup>3</sup> ; 400 ppm
		Ireland: 15 minutes	400 ppm
		Ireland: 8 hours	200 ppm

DNEL/DMEL:

Information about Isopropyl alcohol:

Systemic effects:

DNEL Long-term, workers, dermal: 888 mg/kg bw/d

DNEL Long-term, workers, inhalative: 500 mg/m<sup>3</sup>

DNEL Long-term, consumers, oral: 26 mg/kg bw/d

DNEL Long-term, consumers, dermal: 319 mg/kg bw/d

DNEL Long-term, consumers, inhalative: 89 mg/m<sup>3</sup>

Information about Ethyl acetate:

Systemic effects:

DNEL Long-term, workers, dermal: 63 mg/kg bw/d

DNEL Short-term, workers, inhalative: 1468 mg/m<sup>3</sup>

DNEL Long-term, workers, inhalative: 734 mg/m<sup>3</sup>

DNEL Long-term, consumers, oral: 4.5 mg/kg bw/d

DNEL Long-term, consumers, dermal: 37 mg/kg bw/d

DNEL Short-term, consumers, inhalative: 734 mg/m<sup>3</sup>

DNEL Long-term, consumers, inhalative: 367 mg/m<sup>3</sup>

Local effects:

DNEL Short-term, workers, inhalative: 1468 mg/m<sup>3</sup>

DNEL Long-term, workers, inhalative: 734 mg/m<sup>3</sup>

DNEL Short-term, consumers, inhalative: 734 mg/m<sup>3</sup>

DNEL Long-term, consumers, inhalative: 367 mg/m<sup>3</sup>



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 6 of 12

PNEC: Information about Isopropyl alcohol:  
PNEC water (freshwater): 140.9 mg/L  
PNEC water (marine water): 140.9 mg/L  
PNEC water (intermittent release): 140.9 mg/L  
PNEC sediment (freshwater): 552 mg/kg dw  
PNEC sediment (marine water): 552 mg/kg dw  
PNEC soil: 28 mg/kg dw  
PNEC sewage treatment plant: 552 mg/L  
PNEC Secondary Poisoning, oral: 160 mg/kg food and feedingstuffs

Information about Ethyl acetate:  
PNEC water (freshwater): 0.26 mg/L  
PNEC water (marine water): 0.026 mg/L  
PNEC water (intermittent release): 1.65 mg/L  
PNEC sediment (freshwater): 1.25 mg/kg dw  
PNEC sediment (marine water): 0.125 mg/kg dw  
PNEC soil: 0.24 mg/kg dw  
PNEC sewage treatment plant: 650 mg/L

## 8.2 Exposure controls

Use only closed, grounded equipment with this product.  
Provide for good ventilation or exhaust system or work with completely self-contained equipment.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Use filter type A (= against vapours of organic substances) according to EN 14387.

Hand protection: Protective gloves according to EN 374.  
Glove material: butyl caoutchouc (butyl rubber) - Layer thickness:  $\geq 0.5$  mm  
Breakthrough time:  $> 480$  min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:  
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Avoid contact with skin and eyes.  
Do not inhale substance. Immediately remove all contaminated clothing.  
Wash hands before breaks and after work. When using do not eat or drink.  
Work place should be equipped with a shower and an eye rinsing apparatus.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: Form: liquid  
Colour: clear

Odour: type specific

Odour threshold: No data available

pH value: No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 7 of 12

Melting point/freezing point:	-95 °C
Initial boiling point and boiling range:	56 °C
Flash point/flash point range:	-20 °C
Evaporation rate:	No data available
Flammability:	Highly flammable.
Explosion limits:	LEL (Lower Explosion Limit): 2.20 Vol-% UEL (Upper Explosive Limit): 12.80 Vol-%
Vapour pressure:	240 hPa
Vapour density:	No data available
Density:	0.790 g/mL
Water solubility:	not soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	472 °C
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

## 9.2 Other information

Additional information: No data available

# SECTION 10: Stability and reactivity

## 10.1 Reactivity

Highly flammable liquid and vapour.

## 10.2 Chemical stability

Product is stable under normal storage conditions.

## 10.3 Possibility of hazardous reactions

On contact with air, potentially explosive mixtures may develop.  
Especially in closed containers potentially explosive mixtures may form above water surface.

## 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight.

## 10.5 Incompatible materials

Oxidizing agents

## 10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 8 of 12

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 5620 mg/kg (Ethyl acetate)  
LD50 Rabbit, dermal: > 20000 mg/kg (Ethyl acetate)  
LC50 Rat, inhalative: > 18 mg/L/4h (Ethyl acetate)  
LD50 Rat, oral: 5045 mg/kg (Isopropyl alcohol)  
LD50 Rabbit, dermal: 12800 mg/kg (Isopropyl alcohol)  
LC50 Rat, inhalative: 46.5 mg/L/4h (Isopropyl alcohol)

Toxicological effects: Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Lack of data.  
Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

#### Symptoms

After resorption: Sore throat, loss of appetite, headache, fatigue, drowsiness, nausea, vomiting, breathing paralysis.  
Higher doses may have a narcotic effect.  
In case of inhalation: Vapours irritate mucous membranes and respiratory tracts.  
After contact with skin: Repeated exposure may cause skin dryness or cracking.





# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 9 of 12

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Information about Ethyl acetate:  
Toxic effect on fishes and plankton. Reacts with water.  
Algae toxicity:  
IC50 *Desmodesmus subspicatus* (green algae): 3300 mg/L/48 h.  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 717 mg/L/48 h.  
Fish toxicity:  
LC50 *Pimephales promelas* (fathead minnow): 230 mg/L/96 h.  
Information about Isopropyl alcohol:  
Toxic effect on fishes and plankton.  
Algae toxicity:  
EC50 *Desmodesmus subspicatus* (green algae): > 1000 mg/L/72h (IUCLID).  
Bacterial toxicity:  
EC5 *Pseudomonas putida*: 1050 mg/L/16h.  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 13299 mg/L/48h (IUCLID).  
Fish toxicity:  
LC50 *Lepomis macrochirus* (bluegill): 1400 mg/L/96h (ECOTOX Database).

### 12.2 Persistence and degradability

Further details: Information about Ethyl acetate and Isopropyl alcohol: Easily bio-degradable.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 14 06 03\* = other solvents and solvent mixtures  
\* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.  
Do not dispose of with household waste.

**Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.  
Handle empty containers with care. Incineration may cause explosion.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID, IMDG, IATA-DGR:

UN 1993

**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR:

UN 1993, FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, Ethyl acetate)

**14.3 Transport hazard class(es)**

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk -

IATA-DGR:

Class 3

**14.4 Packing group**

ADR/RID, IMDG, IATA-DGR:

II

**14.5 Environmental hazards**

Marine pollutant:

no

**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board:

ADR/RID: Kemmler-number 33, UN number UN 1993

Hazard label:

3

Special provisions:

274 601 640D

Limited quantities:

1 L

EQ:

E2

Contaminated packaging - Instructions:

P001 IBC02 R001

Special provisions for packing together:

MP19

Portable tanks - Instructions:

T7

Portable tanks - Special provisions:

TP1 TP8 TP28

Tank coding:

LGBF

Tunnel restriction code:

D/E



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 17/1/2018  
Version: 6  
Language: en-GB,IE  
Date of print: 8/3/2018

## Glanzöl

Material number 07

Page: 11 of 12

### Sea transport (IMDG)

EmS: F-E, S-E  
Special provisions: 274  
Limited quantities: 1 L  
Excepted quantities: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP1, TP8, TP28  
Stowage and handling: Category B.  
Properties and observations: -  
Segregation group: none

### Air transport (IATA)

Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special provisions: A3  
Emergency Response Guide-Code (ERG): 3H

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: •3YE  
No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):  
approx. 63 % by weight

**Labelling of packaging with <= 125mL content**



Signal word:	<b>Danger</b>	
Hazard statements:	H336	May cause drowsiness or dizziness.
	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:		
	P102	Keep out of reach of children.
	P261	Avoid breathing vapours.
	P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P501	Dispose of contents/container to hazardous or special waste collection point.

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information**

**Further information**

Wording of the H-phrases under paragraph 2 and 3:

- H225 = Highly flammable liquid and vapour.
- H319 = Causes serious eye irritation.
- H336 = May cause drowsiness or dizziness.
- EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 2: Labelling (P-phrases: EU, ATP 8)

Date of first version: 21/8/2013

**Department issuing data sheet**

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.