

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
Print date : 03.06.2020

Version (Revision) : 2.2.1 (2.2.0)

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

### 1.1 Product identifier

PROLAQ L 400

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/city :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

None

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

DIMETHYL SUCCINATE ; REACH No. : 01-2119486681-29-XXXX ; EC No. : 203-419-9; CAS No. : 106-65-0

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

1-METHOXY-2-PROPANOL ; REACH No. : 01-2119457435-35-XXXX ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

#### Further ingredients

DIMETHYL GLUTARATE ; EC No. : 214-277-2; CAS No. : 1119-40-0

Weight fraction :  $\geq 25 - < 30$  %

2-(2-BUTOXYETHOXY)ETHYL ACETATE ; REACH No. : 01-2119475110-51-XXXX ; EC No. : 204-685-9; CAS No. : 124-17-4

Weight fraction :  $\geq 5 - < 15$  %

DIMETHYL ADIPATE ; EC No. : 211-020-6; CAS No. : 627-93-0

Weight fraction :  $\geq 5 - < 10$  %

#### Additional information

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
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Version (Revision) : 2.2.1 (2.2.0)

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

No known symptoms to date.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

#### Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>) , carbon black.

### 5.3 Advice for firefighters

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

### 5.4 Additional information

Fire transmission possible. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

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

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

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
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Version (Revision) : 2.2.1 (2.2.0)

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.

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

Keep/Store only in original container. Protect against Frost

#### Hints on joint storage

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

DIMETHYL GLUTARATE ; CAS No. : 1119-40-0

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>

Peak limitation : 2(l)

Remark : Y

Version : 29.03.2019

2-(2-BUTOXYETHOXY)ETHYL ACETATE ; CAS No. : 124-17-4

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 10 ppm / 67 mg/m<sup>3</sup>

Peak limitation : 1,5(l)

Remark : Y

Version : 29.03.2019

DIMETHYL ADIPATE ; CAS No. : 627-93-0

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>

Peak limitation : 2(l)

Remark : Y

Version : 29.03.2019

DIMETHYL SUCCINATE ; CAS No. : 106-65-0

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>

Peak limitation : 2(l)

Remark : Y

Version : 29.03.2019

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 100 ppm / 370 mg/m<sup>3</sup>

Peak limitation : 2(l)

Remark : Y

Version : 29.03.2019

Limit value type (country of origin) : STEL ( EC )

Limit value : 150 ppm / 568 mg/m<sup>3</sup>

Remark : Skin

Version : 20.06.2019

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
Print date : 03.06.2020

Version (Revision) : 2.2.1 (2.2.0)

Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

## Biological limit values

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 1-methoxy-2-propanol / Urine (U) / End of exposure or end of shift  
Limit value : 15 mg/l  
Version : 29.03.2019

## DNEL-/PNEC-values

### DNEL/DMEL

Limit value type : DNEL worker (local) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 553,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 369 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 50,6 mg/kg

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

#### Suitable eye protection

EN 166.

#### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.

**Suitable material** : Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 min.

**Thickness of the glove material** : 0.4 mm

**Remark** : 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.

#### Respiratory protection

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
Print date : 03.06.2020

Version (Revision) : 2.2.1 (2.2.0)



Respiratory protection necessary at: exceeding exposure limit values

### Suitable respiratory protection apparatus

Combination filtering device (EN 14387)  
Type : A

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

### 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid

Colour : colourless

#### Odour

characteristic

#### Safety characteristics

Initial boiling point and boiling range ( 1013 hPa )	>	100 °C	
:			
Flash point :	approx.	63 °C	
Lower explosion limit :		not determined	
Upper explosion limit :		not determined	
Vapour pressure :	( 50 °C )	not determined	
Density :	( 20 °C )	0,97 g/cm <sup>3</sup>	
Solvent separation test :	( 20 °C )	not applicable	
pH :		not applicable	
Flow time :	( 20 °C )	not determined	DIN-cup 4 mm
Maximum VOC content (EC) :	<	45 Wt %	
Maximum VOC content (Switzerland) :		4 Wt %	

### 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
Print date : 03.06.2020

Version (Revision) : 2.2.1 (2.2.0)

## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Strong acid Strong alkali Oxidising agent, strong.

## 10.6 Hazardous decomposition products

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 3739 - 4277 mg/kg

##### Acute dermal toxicity

Parameter : LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : Regulation (EC) No. 440/2008, Annex, B.3

##### Acute inhalation toxicity

Parameter : LC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 6000 - 7000 ppm  
Exposure time : 6 h  
Method : OECD 403

#### Corrosion

##### Skin corrosion/irritation

No further relevant information available.

##### Serious eye damage/eye irritation

No further relevant information available.

#### Respiratory or skin sensitisation

##### Skin sensitisation

No further relevant information available.

##### Sensitisation to the respiratory tract

No further relevant information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

No further relevant information available.

##### Germ cell mutagenicity

No further relevant information available.

##### Reproductive toxicity

No further relevant information available.

#### STOT-single exposure

No further relevant information available.

#### STOT-repeated exposure

No further relevant information available.

Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
Print date : 03.06.2020

Version (Revision) : 2.2.1 (2.2.0)

### Aspiration hazard

No further relevant information available.

### 11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### 11.3 Other adverse effects

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation. May be absorbed through the skin.

### 11.4 Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 20800 mg/l  
Exposure time : 96 h

##### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 21100 - 25900 mg/l  
Exposure time : 48 h

##### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 7 D

##### Toxicity to microorganisms

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 17 h  
Method : DIN 38412 / part 8

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : DOC reduction ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 96 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301E

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

# Safety Data Sheet

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Trade name : PROLAQ L 400  
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## 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 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

##### Waste code product

08 01 17 \* - Waste from paint or varnish removal containing organic solvents or other dangerous substances.

##### Waste code packaging

15 01 02 - plastic packaging.

##### Waste treatment options

##### Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

### 13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

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

not relevant

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
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Version (Revision) : 2.2.1 (2.2.0)

Use restriction according to REACH annex XVII, no. : 40

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

#### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

#### Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

03. Further ingredients - 15. Restrictions of occupation

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

No information available.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 400  
Revision date : 03.06.2020  
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Version (Revision) : 2.2.1 (2.2.0)

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**16.5 Relevant H- and EUH-phrases (Number and full text)**

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**16.6 Training advice**

None

**16.7 Additional information**

None

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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.

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