

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

Creation date 30th January 2023
Revision date 29th August 2024 Version 4.0

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

- 1.1. Product identifier** DD poly Y ML
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Material for professional dental use by using CAD/CAM techniques.
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name Polident d.o.o., Dental Products Industry
Address Volčja Draga 42, Volčja Draga, 5293
Slovenia
VAT Reg No SI31319297
Phone 00386 5 3304840, Fax: 00386 5 3304870
E-mail polident@polident.si
- Competent person responsible for the safety data sheet**
Name Polident d.o.o., Dental Products
Industry Industry
E-mail polident@polident.si
- 1.4. Emergency telephone number**
00386 5 3304840 - Polident d.o.o. - Available from Mon to Fri 7 a.m. to 3 p.m.
112 - Information center - available 0-24

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.
- 2.2. Label elements**
Signal word
none
Supplemental information
EUH208 Contains Methyl methacrylate. May produce an allergic reaction.
- 2.3. Other hazards**
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**
Chemical characterization
Pigmented polymer on the base of polymethylmethacrylate.
Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|--|---------------------|---------------------|---|------|
| Index: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1 Registration number: 01-2119452498-28 | Methyl methacrylate | <1 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335 Specific concentration limit: STOT SE 3, H335: C ≥ 10 % | 1, 2 |

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 30th January 2023 | Version | 4.0 |
| Revision date | 29th August 2024 | | |

Notes

- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".*
- A substance for which exposure limits are set.*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Remove the casualty into fresh air. In case of complaints get medical advice.

If on skin

Wash off with water and soap. Consult a physician if irritation persists.

If in eyes

There are not any particular first aid measures required. When dust comes into contact with the eyes wash eyes immediately with running water; if the affected person wears contact lenses, remove them immediately. Depending on the situation, call medical rescue service or ensure medical treatment.

If swallowed

Not likely. Wash out mouth with water and drink water. In case of complaints get medical advice.

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

If inhaled

Not expected.

If on skin

Not expected. May cause an allergic skin reaction. Redness, irritation or blisters.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage. Burning or thermal decomposition produces toxic, irritating and flammable fumes.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with gas-tight suit when close proximity to the substance or its vapours is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 30th January 2023 | Version | 4.0 |
| Revision date | 29th August 2024 | | |

6.3. Methods and material for containment and cleaning up

Pick up the product mechanically. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Only adequate trained persons may deal with product. For use in dentistry only.

Use personal protective equipment as per Section 8. Keep out of reach of children. Do not eat, drink or smoke when using this product. Ensure the area is well ventilated. Do not inhale dust.

7.2. Conditions for safe storage, including any incompatibilities

Store the product only in its original packaging.
Store in a dry place.

7.3. Specific end use(s)

Expiry date: Considering the instructions for safety storage and handling the expiry date of the product is 5 years.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2009/161/EU

| Substance name (component) | Type | Value |
|------------------------------------|----------------|---------|
| Methyl methacrylate (CAS: 80-62-6) | OEL 8 hours | 50 ppm |
| | OEL 15 minutes | 100 ppm |

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

| Substance name (component) | Type | Value |
|------------------------------------|-----------|-----------------------|
| Methyl methacrylate (CAS: 80-62-6) | WEL 8h | 208 mg/m ³ |
| | WEL 8h | 50 ppm |
| | WEL 15min | 416 mg/m ³ |
| | WEL 15min | 100 ppm |

DNEL

| Methyl methacrylate | | | | |
|---------------------|-------------------|-------------------------|--------------------------|------------|
| Workers / consumers | Route of exposure | Value | Effect | Source |
| Workers | Inhalation | 348.4 mg/m ³ | Chronic effects systemic | ECHA REACH |
| Workers | Inhalation | 208 mg/m ³ | Chronic effects local | ECHA REACH |
| Workers | Inhalation | 416 mg/m ³ | Acute effects local | ECHA REACH |
| Workers | Dermal | 13.67 mg/kg bw/day | Chronic effects systemic | ECHA REACH |
| Workers | Dermal | 1.5 mg/cm ² | Chronic effects local | ECHA REACH |
| Workers | Dermal | 1.5 mg/cm ² | Acute effects local | ECHA REACH |
| Consumers | Inhalation | 74.3 mg/m ³ | Chronic effects systemic | ECHA REACH |
| Consumers | Inhalation | 104 mg/m ³ | Chronic effects local | ECHA REACH |
| Consumers | Inhalation | 208 mg/m ³ | Acute effects local | ECHA REACH |
| Consumers | Dermal | 8.2 mg/kg bw/day | Chronic effects systemic | ECHA REACH |
| Consumers | Dermal | 1.5 mg/cm ² | Chronic effects local | ECHA REACH |
| Consumers | Dermal | 1.5 mg/cm ² | Acute effects local | ECHA REACH |
| Consumers | Oral | 8.2 mg/kg bw/day | Chronic effects systemic | ECHA REACH |

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

Creation date 30th January 2023
Revision date 29th August 2024 Version 4.0

PNEC

| Methyl methacrylate | | |
|------------------------------------|---|------------|
| Route of exposure | Value | Source |
| Freshwater environment | 0.94 mg/l | ECHA REACH |
| Marine water | 0.094 mg/l | ECHA REACH |
| Microorganisms in sewage treatment | 10 mg/l | ECHA REACH |
| Freshwater sediment | 10.2 mg/kg of dry substance of sediment | ECHA REACH |
| Sea sediments | 1.02 mg/kg of dry substance of sediment | ECHA REACH |
| Soil (agricultural) | 1.48 mg/kg of dry substance of soil | ECHA REACH |

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation.

Eye/face protection

Not required under normal circumstances. We recommend the use of safety glasses during mechanical processing.

Skin protection

Hand protection: protective gloves that protect against mechanical particles.

Respiratory protection

Under regular circumstances it is not necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------|
| Physical state | solid |
| Colour | different colours |
| Odour | without fragrance |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | data not available |
| Lower and upper explosion limit | data not available |
| Flash point | >250 °C |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | data not available |
| Kinematic viscosity | data not available |
| Solubility in water | insoluble |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | |
| Density | 1.17 g/cm ³ |
| Relative vapour density | data not available |
| Particle characteristics | data not available |

9.2. Other information

not available

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

Creation date 30th January 2023
Revision date 29th August 2024 Version 4.0

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances. Depolymerization starts at 250 °C.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The product is stable under normal conditions. According to the instructions for use, there are no known dangerous reactions.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Avoid heating above 240 °C.

10.5. Incompatible materials

No information.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire. Organic products.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

| Methyl methacrylate | | | | | |
|---------------------|------------------|-------------|---------------|---------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Oral | LD ₅₀ | >5000 mg/kg | | Rat | |
| Inhalation | LC ₅₀ | 29.8 mg/l | 4 hours | Rat | |
| Dermal | LD ₅₀ | >5000 mg/kg | | Rabbit | M |

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.

| Methyl methacrylate | | | |
|---------------------|-----------|---------------|---------|
| Route of exposure | Result | Exposure time | Species |
| Eye | No effect | | Rabbit |

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.
May cause an allergic skin reaction. Redness, irritation or blisters.

| Methyl methacrylate | | | | | | |
|---------------------|-------------|----------|---------------|---------|-----|--------|
| Route of exposure | Result | Method | Exposure time | Species | Sex | Source |
| Dermal | Sensitizing | OECD 429 | | Mouse | | LLNA |

Germ cell mutagenicity

Based on available data the classification criteria are not met.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

Creation date 30th January 2023
Revision date 29th August 2024 Version 4.0

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Methyl methacrylate

| Route of exposure | Parameter | Value | Specific target organ | Result | Species | Sex |
|-------------------|-----------|-------|-----------------------|------------|---------|-----|
| Inhalation | | | Lungs | Irritating | | |

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Methyl methacrylate

| Route of exposure | Parameter | Value | Result | Species | Sex |
|-------------------|-----------|----------|--------|---------|-----|
| Inhalation | NOAEL | 25 ppm | | Rat | |
| Oral | NOAEL | 2000 ppm | | Rat | |

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

No other relevant information is available, no evidence of hazardous properties.

Acute toxicity

Methyl methacrylate

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|----------|-----------|---------------|-----------------------------------|-------------|
| LC ₅₀ | | >79 mg/l | 96 hours | Fish (Oncorhynchus mykiss) | |
| EC ₅₀ | | 69 mg/l | 48 hours | Daphnia (Daphnia magna) | |
| EC ₅₀ | OECD 201 | >110 mg/l | 72 hours | Algae (Selenastrum capricornutum) | |
| NOEC | | 48 mg/l | 48 hours | Daphnia (Daphnia magna) | |
| NOEC | OECD 201 | 110 mg/l | 72 hours | Algae (Selenastrum capricornutum) | |
| NOEC | OECD 201 | 49 mg/l | 72 hours | Algae (Selenastrum capricornutum) | |

Chronic toxicity

Methyl methacrylate

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|----------|---------------|--------------------|-------------|
| NOEC | OECD 210 | 9.4 mg/l | 35 days | Fish (Danio rerio) | |

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

Creation date 30th January 2023
Revision date 29th August 2024 Version 4.0

| Methyl methacrylate | | | | | |
|---------------------|----------|-----------|---------------|-------------------------|-------------|
| Parameter | Method | Value | Exposure time | Species | Environment |
| LC ₅₀ | OECD 210 | 33.7 mg/l | 35 days | Fish (Danio rerio) | |
| NOEC | OECD 211 | 37 mg/l | 21 days | Daphnia (Daphnia magna) | |
| EC ₅₀ | OECD 211 | 49 mg/l | 21 days | Daphnia (Daphnia magna) | |

12.2. Persistence and degradability

No other relevant information is available, no evidence of hazardous properties.

Biodegradability

| Methyl methacrylate | | | | | |
|---------------------|-----------|-------|---------------|-------------|----------------------|
| Parameter | Method | Value | Exposure time | Environment | Result |
| | | | | | Easily biodegradable |
| | OECD 301C | 94 % | 14 days | | |

12.3. Bioaccumulative potential

No other relevant information is available, no evidence of hazardous properties.

| Methyl methacrylate | | | | | |
|---------------------|-------|---------------|---------|-------------|------------------|
| Parameter | Value | Exposure time | Species | Environment | Temperature [°C] |
| Log Kow | 1.38 | | | | |

12.4. Mobility in soil

No other relevant information is available, no evidence of hazardous properties.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste in accordance with local and/or state regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 30th January 2023 | Version | 4.0 |
| Revision date | 29th August 2024 | | |

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended.

Public health act 1961.

Environmental Protection Act 1990 as amended.

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

The product is a class IIa medical device in accordance with the Medical Devices Ordinance MDR 2017/745.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|--------|---|
| EUH208 | Contains Methyl methacrylate. May produce an allergic reaction. |
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50 % of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| Flam. Liq. | Flammable liquid |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



DD poly Y ML

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 30th January 2023 | Version | 4.0 |
| Revision date | 29th August 2024 | | |

| | |
|---------------------|---|
| IMO | International Maritime Organization |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| log K _{ow} | Octanol-water partition coefficient |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, bioaccumulative and toxic |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT SE | Specific target organ toxicity - single exposure |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very persistent and very bioaccumulative |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS from 22.02.2023.

Changes were made in sections:

2.2. Label elements,

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

8.1 Control parameters,

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

16 Other information.

More information

Classification procedure - calculation method.

Safety Data Sheet created by CHEM CONSULTING s.p. (info@chem-consulting.si).

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.