

# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## MicroTemp HT Plus

Print date: 19.04.2017

Product code: 50-600\_EN

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

**1.1. Product identifier** International Nomenclature Code **29 16 1400**

MicroTemp HT Plus

Product group: Liquid component

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

#### Use of the substance/mixture

Creation of dental products

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

Company name: Micropolymer S.r.l.s.  
Via Torrette Battifoglia Zona Industriale Fraz.S.Andrea Delle Fratte  
Place: 06132 Perugia (Italy)  
Telephone: +39 3274572561  
e-mail: info@micropolymerdental.com  
Contact person: Ing.Libero Leone  
e-mail: info@micropolymerdental.com  
Internet: www.micropolymerdental.com

**1.4. Emergency telephone number:** +390266101029

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Acute toxicity: Acute Tox 4

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

#### 2.2. Label elements

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

#### Hazard components for labelling

Methyl methacrylate

**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  
P302+352 If on Skin: Wash with plenty of water  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name   | Index No | REACH No         | Quantity    |
|------------|---|----------|------------------|-------------|
|            | EC No   |          |                  |             |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]           |          |                  |             |
| 80-62-6    | Methyl methacrylate   |          |                  | 75 - < 80 % |
|            | 201-297-1   |          | 01-2119452498-28 |             |
| 72869-86-4 | HEMATMDI  |          |                  | 15 - < 20%  |
|            | Acquatic Chronic 3; H412  |          |                  |             |
|            |   |          |                  |             |
| 90551-76-1 | Metacrylsäureester C13,0  |          |                  | 5 - < 10%   |
|            | 292-094-7   |          |                  |             |
|            | Flam. Liq. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H224 H315 H317 H335 |          |                  |             |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

#### 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 polyethylene glycol, followed by plenty of water. 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 plenty of water.

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

No information available.

### 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** Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

Water

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

Flammable. Vapours can form explosive mixtures with air.

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### **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**

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.

### **6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

### **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). 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

## 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.

#### **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.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Advice on storage compatibility**

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

### **7.3. Specific end use(s)**

Dental prothesis

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **Exposure limits (EH40)**

| CAS No  | Substance           | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|---------------------|-----|-------------------|-----------|---------------|--------|
| 80-62-6 | Methyl methacrylate | 50  | 208               |           | TWA (8 h)     | WEL    |
|         |                     | 100 | 416               |           | STEL (15 min) | WEL    |

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#### DNEL/DMEL values

| CAS No                 | Substance           |        |                       |
|------------------------|---------------------|--------|-----------------------|
| DNEL type              | Exposure route      | Effect | Value                 |
| 80-62-6                | Methyl methacrylate |        |                       |
| Worker DNEL, long-term | inhalation          |        | 208 mg/m <sup>3</sup> |
| Worker DNEL, long-term | dermal              |        | 17 mg/kg bw/day       |

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### Eye/face protection

Wear eye/face protection.

##### 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.

##### Skin protection

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

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid  
 Colour: colourless  
 Odour: characteristic

#### Test method

pH-Value: not determined

#### Changes in the physical state

Melting point: -48 °C  
 Initial boiling point and boiling range: 100,3 °C  
 Flash point: DIN 51755 10 °C

#### Flammability

Solid: not applicable  
 Gas: not applicable  
 Lower explosion limits: 2,1 vol. %  
 Upper explosion limits: 12,5 vol. %  
 Ignition temperature: 421 °C

#### Auto-ignition temperature

Solid: not applicable

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|                                     |                        |
|-------------------------------------|------------------------|
| Gas:                                | not applicable         |
| Decomposition temperature:          | not determined         |
| <b>Oxidizing properties</b>         |                        |
| Not oxidizing.                      |                        |
| Vapour pressure:<br>(at 20 °C)      | 37 hPa                 |
| Density (at 15,5 °C):               | 0,94 g/cm <sup>3</sup> |
| Water solubility:<br>(at 20 °C)     | 15,3 g/L               |
| <b>Solubility in other solvents</b> |                        |
| not determined                      |                        |
| Partition coefficient:              | Log Pow 1,38           |
| Viscosity / dynamic:<br>(at 20 °C)  | 0,53 mPa·s             |
| Vapour density:<br>(at 20 °C)       | 3,5                    |
| Evaporation rate:                   | not determined         |
| <b>9.2. Other information</b>       |                        |
| Solid content:                      | not determined         |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable, Ignition hazard.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 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.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicokinetics, metabolism and distribution

The product has not been tested.

#### Acute toxicity

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

#### ATEmix tested

|              | Dose         | Species | Source |
|--------------|--------------|---------|--------|
| LD50, oral   | > 5000 mg/kg | Rat     |        |
| LD50, dermal | > 5000 mg/kg | Rabbit  |        |

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LC50, inhalative (vapour) (1 h) 29,8 mg/l

Rat

| CAS No  | Chemical name       | Exposure route    | Dose             | Species | Source   |
|---------|---------------------|-------------------|------------------|---------|----------|
| 80-62-6 | Methyl methacrylate | oral              | LD50 >5000 mg/kg | Rat     | OECD 401 |
|         |                     | dermal            | LD50 >5000 mg/kg | Rabbit  |          |
|         |                     | inhalative vapour | LC50 29,8 mg/l   | Rat     |          |

### Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

May cause an allergic skin reaction. (Methyl methacrylate)

### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

May cause respiratory irritation. (Methyl methacrylate)

### 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.

### Additional information on tests

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute (short-term) fish toxicity

| CAS No  | Chemical name       | Aquatic toxicity         | Dose             | [h]   [d] | Species                             | Source   |
|---------|---------------------|--------------------------|------------------|-----------|-------------------------------------|----------|
| 80-62-6 | Methyl methacrylate | Acute fish toxicity      | LC50 > 79 mg/l   | 96 h      | Oncorhynchus mykiss (Rainbow trout) | OECD 203 |
|         |                     | Acute algae toxicity     | ErC50 > 110 mg/l | 72 h      | Selenastrum capricornutum           | OECD 201 |
|         |                     | Acute crustacea toxicity | EC50 69 mg/l     | 48 h      | Daphnia magna (Big water flea)      | OECD 202 |
|         |                     | Crustacea toxicity       | NOEC 37 mg/l     | 21 d      | Daphnia magna (Big water flea)      | OECD 202 |

### 12.2. Persistence and degradability

Biodegradable.

### 12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

### Partition coefficient n-octanol/water

| CAS No  | Chemical name       | Log Pow |
|---------|---------------------|---------|
| 80-62-6 | Methyl methacrylate | 1,38    |

### 12.4. Mobility in soil

Mobility in soil: No adsorption in soil or sediment.

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### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues  
Classified as hazardous waste.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 1247                                 |
| <b>14.2. UN proper shipping name:</b>    | METHYL METHACRYLATE MONOMER, STABILIZED |
| <b>14.3. Transport hazard class(es):</b> | 3                                       |
| <b>14.4. Packing group:</b>              | II                                      |
| Hazard label:                            | 3                                       |
| Classification code:                     | F1                                      |
| Limited quantity:                        | 1 L                                     |
| Transport category:                      | 2                                       |
| Hazard No:                               | 339                                     |
| Tunnel restriction code:                 | D/E                                     |

#### Other applicable information (land transport)

E2

### Inland waterways transport (ADN)

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 1247                                 |
| <b>14.2. UN proper shipping name:</b>    | METHYL METHACRYLATE MONOMER, STABILIZED |
| <b>14.3. Transport hazard class(es):</b> | 3                                       |
| <b>14.4. Packing group:</b>              | II                                      |
| Hazard label:                            | 3                                       |
| Classification code:                     | F1                                      |
| Limited quantity:                        | 1 L                                     |

#### Other applicable information (inland waterways transport)

E2

### Marine transport (IMDG)

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 1247                                 |
| <b>14.2. UN proper shipping name:</b>    | METHYL METHACRYLATE MONOMER, STABILIZED |
| <b>14.3. Transport hazard class(es):</b> | 3                                       |

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**14.4. Packing group:** II  
Hazard label: 3  
Special Provisions: -  
Limited quantity: 1 L  
EmS: F-E, S-D

**Other applicable information (marine transport)**  
E2

#### Air transport (ICAO)

**14.1. UN number:** UN 1247  
**14.2. UN proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**  
E2

Passenger-LQ: Y341

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Warning: Combustible liquids.

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

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

##### Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating  
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)



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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

#### Further Information

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

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