



## Safety Data Sheet

according to 29 CFR 1910.1200(g)

## Renamel Microfill

Revision date: 09/30/2024

Product code: 607xxx601xxx615xxx

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Dispose of contents/container in accordance with local regulation.

**Hazards not otherwise classified**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture of acrylic resins, fillers and initiators.

**Relevant ingredients**

| CAS No     | Components                                | Quantity |
|------------|---|----------|
| 72869-86-4 | urethane dimethacrylate (UDMA)            | * < 25 % |
| 2082-81-7  | 1,4 Butanediol dimethacrylate (1,4-BDDMA) | * < 25 % |

**Further Information**

\* The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**4. First-aid measures****Description of first aid measures****General information**

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

**After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

**After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Medical treatment necessary.

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

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Foam, Extinguishing powder, Carbon dioxide, Water spray.

**Specific hazards arising from the chemical**

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Hazardous decomposition products.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

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**Additional information**

Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

Avoid contact with skin, eyes and clothes. 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.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Protect from the action of light. Keep only in the original container at a temperature between 4 – 24 °C (39 – 75 °F). Can polymerize with intense heat release.

**Hints on joint storage**

Do not store together with:

Oxidising agent

Food

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

tightly fitting goggles

**Hand protection**

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

**Skin protection**

Wear suitable protective clothing.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                                  |                |
|---|----------------------------------|----------------|
| Physical state:   | pasty                            |                |
| Color:  | various, depending on coloration |                |
| Odor:   | hardly noticeable                |                |
| Melting point/freezing point:                             |                                  | not determined |
| Boiling point or initial boiling point and boiling range: |                                  | not determined |
| Flammability:   |                                  | not determined |
| Lower explosion limits:                                   |                                  | not determined |
| Upper explosion limits:                                   |                                  | not determined |
| Flash point:  |                                  | > 100 °C       |
| Auto-ignition temperature:                                |                                  | not determined |
| Decomposition temperature:                                |                                  | not determined |
| pH-Value:   |                                  | not determined |
| Viscosity / kinematic:                                    |                                  | not determined |
| Water solubility:   |                                  | not determined |
| Solubility in other solvents                              |                                  | not determined |
| Partition coefficient n-octanol/water:                    |                                  | not determined |
| Vapor pressure:   |                                  | not determined |
| Density:  |                                  | not determined |
| Relative vapour density:                                  |                                  | not determined |
| Particle characteristics:                                 |                                  | not applicable |

### Other information

#### **Information with regard to physical hazard classes**

Self-ignition temperature

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

#### **Other safety characteristics**

|                      |                  |
|----------------------|------------------|
| Evaporation rate:    | not determined   |
| Solid content:       | not determined   |
| Viscosity / dynamic: | 150 * 1000 mPa·s |

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions: Will not occur

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

### Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 – 24 °C (39 – 75 °F). Can polymerize with intense heat release.

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**Incompatible materials**

Oxidising agent, Reducing agent, Heavy metals, Acids, Alkali (lye).

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) 8503 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 32,72 mg/l

| CAS No     | Components                                |                   |         |          |        |
|------------|---|-------------------|---------|----------|--------|
|            | Exposure route                            | Dose              | Species | Source   | Method |
| 72869-86-4 | urethane dimethacrylate (UDMA)            |                   |         |          |        |
|            | oral                                      | LD50 >5000 mg/kg  | Rat     | OECD 401 |        |
|            | dermal                                    | LD50 >2000 mg/kg  | Rat     | OECD 402 |        |
|            | inhalation (4 h) dust/mist                | LC50 >5 mg/l      |         |          |        |
| 2082-81-7  | 1,4 Butanediol dimethacrylate (1,4-BDDMA) |                   |         |          |        |
|            | oral                                      | LD50 > 5000 mg/kg | Rat     | OECD 401 |        |
|            | dermal                                    | LD50 > 3000 mg/kg | Rabbit  |          |        |

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

**Sensitizing effects**

May cause an allergic skin reaction (urethane dimethacrylate (UDMA); 1,4 Butanediol dimethacrylate (1,4-BDDMA))

Possible sensitization in case of persons suffering from hypersensitivity.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

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

**Further information**

Product has not been tested. The statement is derived from the properties of the components.

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**12. Ecological information****Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**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.

**Other adverse effects**

No information available.

**Further information**

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****U.S. DOT 49 CFR 172.101****Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

**Marine transport (IMDG)****Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

**National regulatory information**

SARA Section 311/312 Hazards:

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urethane dimethacrylate (UDMA) (72869-86-4): Immediate (acute) health hazard

1,4 Butanediol dimethacrylate (1,4-BDDMA) (2082-81-7): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

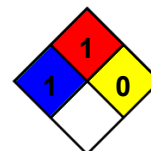
This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Identification System (HMIS)**

Health: 1  
Flammability: 1  
Physical Hazard: 0

**NFPA Hazard Ratings**

Health: 1  
Flammability: 1  
Reactivity: 0  
Unique Hazard:

**Changes**

Revision date: 09/30/2024  
Revision No: 2,1

This data sheet contains changes from the previous version in section(s): 16.

Matter of revision: new product code

**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)  
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%

**Other data**

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.)*