

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 05.05.2022

Version: 12 (replaces version 11)

Revision: 05.05.2022

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

- **1.1 Product identifier**
- **Trade name:** Futura Jet Flüssigkeit
- **Article number:** 650061, 650062
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** self curing resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)  
Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-900  
www.schuetz-dental.de; e-mail: info@schuetz-dental.de
- **Further information obtainable from:** F&E, Tel.: +49 (0)6003/814-0
- **1.4 Emergency telephone number:**  
+49 (0) 6003 8140 Schütz Dental (8:00 - 17:00 Uhr) or  
+49 (0) 6131 19240 Poison Information Center, University Mainz (24 h)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
Skin Irrit. 2 H315 Causes skin irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methyl methacrylate  
tetramethylene dimethacrylate
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
- **Precautionary statements**

|                |                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.           |
| P241           | Use explosion-proof [electrical/ventilating/lighting] equipment.                                         |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.                                                        |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P405           | Store locked up.                                                                                         |
| P501           | Dispose of contents/container in accordance with local/regional/national/international regulations.      |

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Liquid based on methacryl acid ester, containing an activator.

#### · **Dangerous components:**

|                                     |                                                                                                     |         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|---------|
| CAS: 80-62-6<br>EINECS: 201-297-1   | methyl methacrylate<br>Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | 75-100% |
| CAS: 2082-81-7<br>EINECS: 218-218-1 | tetramethylene dimethacrylate<br>Skin Sens. 1B, H317                                                | 2.5-10% |

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Water haze  
Foam  
Fire-extinguishing powder  
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Wear protective clothing.

Avoid eye and skin contact with the substance.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

#### · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

#### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

##### · Storage

· Requirements to be met by storerooms and receptacles: Storage between 10 °C and 25 °C.

· Information about storage in one common storage facility: Store away from foodstuffs.

##### · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

#### · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · Ingredients with limit values that require monitoring at the workplace:

##### 80-62-6 methyl methacrylate

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppmLong-term value: 208 mg/m<sup>3</sup>, 50 ppm

· Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

##### · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

##### · Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

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- **Hand protection** Solvent resistant gloves
- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **Penetration time of glove material**  
0,3 mm  
Penetration time 60 min.  
0,11 mm  
Penetration time 10 min.
- **Eye/face protection** Tightly sealed goggles.
- **Body protection:**  
Protective work clothing.  
(Only when handling large quantities)

### SECTION 9: Physical and chemical properties

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

##### · General Information

- |                                                                   |                                  |
|-------------------------------------------------------------------|----------------------------------|
| · <b>Physical state</b>                                           | Fluid                            |
| · <b>Colour:</b>                                                  | Colourless                       |
| · <b>Odour:</b>                                                   | Ester-like                       |
| · <b>Odour threshold:</b>                                         | Not determined.                  |
| · <b>Melting point/freezing point:</b>                            | -48 °C                           |
| · <b>Boiling point or initial boiling point and boiling range</b> | 100 °C                           |
| · <b>Flammability</b>                                             | Not applicable.                  |
| · <b>Lower and upper explosion limit</b>                          |                                  |
| · <b>Lower:</b>                                                   | 2.1 Vol %                        |
| · <b>Upper:</b>                                                   | 12.5 Vol %                       |
| · <b>Flash point:</b>                                             | 10 °C                            |
| · <b>Ignition temperature:</b>                                    | 430 °C                           |
| · <b>Decomposition temperature:</b>                               | Not determined.                  |
| · <b>pH</b>                                                       | Not determined                   |
| · <b>Viscosity:</b>                                               |                                  |
| · <b>Kinematic viscosity</b>                                      | Not determined                   |
| · <b>dynamic:</b>                                                 | Not determined                   |
| · <b>Solubility</b>                                               |                                  |
| · <b>Water:</b>                                                   | Not miscible or difficult to mix |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                  |
| · <b>Vapour pressure at 20 °C:</b>                                | 47 hPa                           |
| · <b>Density and/or relative density</b>                          |                                  |
| · <b>Density at 20 °C:</b>                                        | 0.9451 g/cm <sup>3</sup>         |
| · <b>Relative density</b>                                         | Not determined.                  |
| · <b>Vapour density</b>                                           | Not determined.                  |

#### · 9.2 Other information

- |                                                                                        |                                                                                             |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Appearance:</b>                                                                   |                                                                                             |
| · <b>Form:</b>                                                                         | Fluid                                                                                       |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                                                                             |
| · <b>Auto-ignition temperature:</b>                                                    | Product is not selfigniting.                                                                |
| · <b>Explosive properties:</b>                                                         | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Change in condition</b>                                                           |                                                                                             |
| · <b>Evaporation rate</b>                                                              | Not determined.                                                                             |

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

- |                     |      |
|---------------------|------|
| · <b>Explosives</b> | Void |
|---------------------|------|

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|                                                                                    |                                     |
|------------------------------------------------------------------------------------|-------------------------------------|
| · <b>Flammable gases</b>                                                           | Void                                |
| · <b>Aerosols</b>                                                                  | Void                                |
| · <b>Oxidising gases</b>                                                           | Void                                |
| · <b>Gases under pressure</b>                                                      | Void                                |
| · <b>Flammable liquids</b>                                                         | Highly flammable liquid and vapour. |
| · <b>Flammable solids</b>                                                          | Void                                |
| · <b>Self-reactive substances and mixtures</b>                                     | Void                                |
| · <b>Pyrophoric liquids</b>                                                        | Void                                |
| · <b>Pyrophoric solids</b>                                                         | Void                                |
| · <b>Self-heating substances and mixtures</b>                                      | Void                                |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void                                |
| · <b>Oxidising liquids</b>                                                         | Void                                |
| · <b>Oxidising solids</b>                                                          | Void                                |
| · <b>Organic peroxides</b>                                                         | Void                                |
| · <b>Corrosive to metals</b>                                                       | Void                                |
| · <b>Desensitised explosives</b>                                                   | Void                                |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerization
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**  
methyl methacrylate LD-50 oral >5000 mg/kg rat (lit.)  
LD-50 inhalativ 7093 ppm/4h rat (lit.)  
tetramethylene dimethacrylate LD-50 oral > 5000 mg/kg (rat)
- **Skin corrosion/irritation** Causes skin irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation.
- **11.2 Information on other hazards**

#### · **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Type of test** **Effective concentration** **Method** **Assessment**  
Toxicity to fish: LC-50: >79 mg/l OECD 203  
(MMA) NOEC: 40 mg/l ISO 7346  
Time: 96 h EEC84  
Species:  
Oncorhynchus mykiss

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Toxicity to Micro- ECO: 100 mg/l starting inhibition  
Organisms Species: of cell growth  
(MMA) Pseudomonas putida

· **12.2 Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Components:**

methyl methacrylate Biodegradability: 30,7 %

Time: 28 d

Method: OECD 301 C

Valuation: difficult to decompose

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

\*

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

\*

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1247

· **14.2 UN proper shipping name**

· **ADR**

1247 METHYL METHACRYLATE MONOMER,  
STABILIZED mixture

· **IMDG, IATA**

METHYL METHACRYLATE MONOMER, STABILIZED  
mixture

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

3 (F1) Flammable liquids.

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|                                                                                   |                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                    | 3                                                                                                               |
| · <b>IMDG, IATA</b>                                                               |                                                                                                                 |
|  |                                                                                                                 |
| · <b>Class</b>                                                                    | 3 Flammable liquids.                                                                                            |
| · <b>Label</b>                                                                    | 3                                                                                                               |
| · <b>14.4 Packing group</b>                                                       |                                                                                                                 |
| · <b>ADR, IMDG, IATA</b>                                                          | II                                                                                                              |
| · <b>14.5 Environmental hazards:</b>                                              |                                                                                                                 |
| · <b>Marine pollutant:</b>                                                        | No                                                                                                              |
| · <b>14.6 Special precautions for user</b>                                        | Warning: Flammable liquids.                                                                                     |
| · <b>Hazard identification number (Kemler code):</b>                              | 33                                                                                                              |
| · <b>EMS Number:</b>                                                              | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                         | B                                                                                                               |
| · <b>Stowage Code</b>                                                             | SW2 Clear of living quarters.                                                                                   |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b>             | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                        |                                                                                                                 |
| · <b>ADR</b>                                                                      |                                                                                                                 |
| · <b>Limited quantities (LQ)</b>                                                  | 1L                                                                                                              |
| · <b>Excepted quantities (EQ)</b>                                                 | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>Transport category</b>                                                       | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                  | D/E                                                                                                             |
| · <b>IMDG</b>                                                                     |                                                                                                                 |
| · <b>Limited quantities (LQ)</b>                                                  | 1L                                                                                                              |
| · <b>Excepted quantities (EQ)</b>                                                 | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>                                                   | UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II                                                  |

\*

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **National regulations**
- **Information about limitation of use:**
  - Employment restrictions concerning juveniles must be observed.
  - Employment restrictions concerning pregnant and lactating women must be observed.

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· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| III   | 2.5-10     |

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.  
 · **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

\*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

· **Department issuing SDS:**

F & E  
 Schütz Dental GmbH

· **Contact:** Advisory service dep.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

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