

# Safety data sheet

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

Printing date 23.01.2023

Version number 6 (replaces version 5)

Revision: 23.01.2023

Start

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

- **1.1 Product identifier**
- **Trade name:** *Fix Solvent Aerosol*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Solvents
- **Uses advised against** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Dentsply DeTrey GmbH  
De-Trey-Str. 1  
D-78467 Konstanz  
GERMANY  
Tel.: +49-(0)7531-583-0  
Fax: +49-(0)7531-583-104  
email: KonstanzDEU.info-sdb@dentsplysirona.com
- **Further information obtainable from:** Research and Development
- **1.4 Emergency telephone number:** +49-(0)7531-583-0 8:00 - 17:00 (GMT + 1:00)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

- **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:**  
*propan-2-ol*
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

|                                     |                                                                                                 |           |
|-------------------------------------|-------------------------------------------------------------------------------------------------|-----------|
| CAS: 67-63-0<br>EINECS: 200-661-7   | propan-2-ol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336                          | 50 – 100% |
| CAS: 106-97-8<br>EINECS: 203-448-7  | butane, pure<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280                                    | 10 – 25%  |
| CAS: 1330-20-7<br>EINECS: 215-535-7 | xylene (mix)<br>Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 | 10 – 25%  |

· **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; consult doctor in case of complaints.· **After skin contact** Immediately wash with water and soap and rinse thoroughly.· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing** If symptoms persist consult doctor.· **Information for doctor** No further relevant information available.· **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** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.· **For safety reasons unsuitable extinguishing agents**

Water with full jet.

Water.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.· **5.3 Advice for firefighters**· **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.· **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Observe normal care for working with chemicals.

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

Do not spray onto a naked flame or any incandescent material.



Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **Handling** Product is intended for dental use only.

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

##### · Storage

##### · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:** Not required.

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

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· **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:

##### CAS: 67-63-0 propan-2-ol

|     |                                                    |
|-----|----------------------------------------------------|
| WEL | Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm |
|     | Long-term value: 999 mg/m <sup>3</sup> , 400 ppm   |

##### CAS: 106-97-8 butane, pure

|     |                                                    |
|-----|----------------------------------------------------|
| WEL | Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm |
|     | Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm  |
|     | Carc (if more than 0.1% of buta-1,3-diene)         |

##### CAS: 1330-20-7 xylene (mix)

|     |                                                   |
|-----|---------------------------------------------------|
| WEL | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm |
|     | Long-term value: 220 mg/m <sup>3</sup> , 50 ppm   |
|     | Sk; BMGV                                          |

· **Regulatory information** WEL: EH40/2020

##### · Ingredients with biological limit values:

##### CAS: 1330-20-7 xylene (mix)

|      |                                 |
|------|---------------------------------|
| BMGV | 650 mmol/mol creatinine         |
|      | Medium: urine                   |
|      | Sampling time: post shift       |
|      | Parameter: methyl hippuric acid |

· **Regulatory information** BMGV: EH40/2011· **Additional information:** The lists valid during the making were used as basis.

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- **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.
- **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles.

- **Body protection:** Protective work clothing.

\*

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Aerosol
- **Colour:** Colourless
- **Odour:** Solvent-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** undetermined
- **Boiling point or initial boiling point and boiling range**  $\geq -0.5$  °C (CAS: 106-97-8 butane, pure)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:**  $\geq 1.1$  Vol % (CAS: 1330-20-7 xylene (mix))
- **Upper:**  $\leq 13.4$  Vol % (CAS: 67-63-0 propan-2-ol)
- **Flash point:**  $\geq -60$  °C (CAS: 106-97-8 butane, pure)
- **Ignition temperature:**  $\geq 365$  °C (CAS: 106-97-8 butane, pure)
- **Decomposition temperature:** Not applicable
- **pH** Not determined.

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|                                                            |                                          |
|------------------------------------------------------------|------------------------------------------|
| · <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>                         | ≤ 2,100 hPa (CAS: 106-97-8 butane, pure) |
| · <b>Density and/or relative density</b>                   |                                          |
| · <b>Density at 20 °C:</b>                                 | 0.563 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>                                                                         | Aerosol                      |
| · <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>                                                         | Not determined.              |
| · <b>Solvent content:</b>                                                              |                              |
| · <b>Organic solvents:</b>                                                             | 100.0 %                      |
| · <b>Solids content:</b>                                                               | 0.0 %                        |
| · <b>Change in condition</b>                                                           |                              |
| · <b>Evaporation rate</b>                                                              | Not applicable.              |

**Information with regard to physical hazard classes**

|                                                                                    |                                                                          |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| · <b>Explosives</b>                                                                | Void                                                                     |
| · <b>Flammable gases</b>                                                           | Void                                                                     |
| · <b>Aerosols</b>                                                                  | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| · <b>Oxidising gases</b>                                                           | Void                                                                     |
| · <b>Gases under pressure</b>                                                      | Void                                                                     |
| · <b>Flammable liquids</b>                                                         | Void                                                                     |
| · <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** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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### 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:

##### ATE (Acute Toxicity Estimate)

|        |      |                       |
|--------|------|-----------------------|
| Dermal | LD50 | 11,333 mg/kg (rabbit) |
|--------|------|-----------------------|

##### CAS: 67-63-0 propan-2-ol

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 5,045 mg/kg (rat) |
|------|------|-------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | 12,800 mg/kg (rab) |
|--------|------|--------------------|

##### CAS: 1330-20-7 xylene (mix)

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 4,300 mg/kg (rat) |
|------|------|-------------------|

|        |      |                      |
|--------|------|----------------------|
| Dermal | LD50 | 1,700 mg/kg (rabbit) |
|--------|------|----------------------|

|            |          |                 |
|------------|----------|-----------------|
| Inhalative | LC50/4 h | 21.7 mg/l (rat) |
|------------|----------|-----------------|

- **Skin corrosion/irritation** Causes skin irritation.

- **Serious eye damage/irritation** Causes serious eye irritation.

- **STOT-single exposure** May cause drowsiness or dizziness.

#### · 11.2 Information on other hazards

##### · Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### CAS: 67-63-0 propan-2-ol

|          |                                        |
|----------|----------------------------------------|
| LC50/96h | 1,400 mg/l (Fish acute toxicity study) |
|----------|----------------------------------------|

|          |                             |
|----------|-----------------------------|
| EC50/48h | 13,299 mg/L (daphnia magna) |
|----------|-----------------------------|

##### CAS: 1330-20-7 xylene (mix)

|          |                          |
|----------|--------------------------|
| LC50/48h | 8.5 mg/l (daphnia magna) |
|----------|--------------------------|

|          |                                       |
|----------|---------------------------------------|
| LC50/96h | 15.7 mg/l (Fish acute toxicity study) |
|----------|---------------------------------------|

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

- **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

The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects

#### · Additional ecological information:

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

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### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation



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

UN1950

- 14.2 UN proper shipping name
- ADR
- IMDG
- IATA

1950 AEROSOLS  
AEROSOLS  
AEROSOLS, flammable

- 14.3 Transport hazard class(es)
- ADR



- Class
- Label

2 5F Gases.  
2.1

- IMDG, IATA



- Class
- Label

2.1 Gases.  
2.1

- 14.4 Packing group
- ADR, IMDG, IATA

Void

- 14.5 Environmental hazards:

Not applicable.

- 14.6 Special precautions for user
- Hazard identification number (Kemler code):
- EMS Number:
- Stowage Code

Warning: Gases.  
-  
F-D,S-U  
SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.  
For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2.

- Segregation Code

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|                                                                |                                                                                   |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| .                                                              | For WASTE AEROSOLS:<br>Segregation as for the appropriate subdivision of class 2. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable.                                                                   |
| · Transport/Additional information:                            |                                                                                   |
| · ADR                                                          |                                                                                   |
| · Limited quantities (LQ)                                      | 1L                                                                                |
| · Excepted quantities (EQ)                                     | Code: E0<br>Not permitted as Excepted Quantity                                    |
| · Transport category                                           | 2                                                                                 |
| · Tunnel restriction code                                      | D                                                                                 |
| · IMDG                                                         |                                                                                   |
| · Limited quantities (LQ)                                      | 1L                                                                                |
| · Excepted quantities (EQ)                                     | Code: E0<br>Not permitted as Excepted Quantity                                    |
| · UN "Model Regulation":                                       | UN 1950 AEROSOLS, 2.1                                                             |

\*

### 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 P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 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.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer.

For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

#### · Relevant phrases

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.

#### · Department issuing SDS: Research & Development

#### · Contact: HotLine for urgent technical support: +49-7531-583-350

#### · Abbreviations and acronyms:

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

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*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. Gas 1A: Flammable gases – Category 1A*  
*Aerosol 1: Aerosols – Category 1*  
*Press. Gas (Comp.): Gases under pressure – Compressed gas*  
*Flam. Liq. 2: Flammable liquids – Category 2*  
*Flam. Liq. 3: Flammable liquids – Category 3*  
*Acute Tox. 4: Acute toxicity – Category 4*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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

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