

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 01/03/2020

Version number 12

Reviewed on 01/03/2020

**1 Identification**

- **Product identifier**
- **Trade name:** *Spraynet*
- **Article number:** 1600036
- **Application of the substance / the mixture**  
*Auxiliary for dental technology*  
*Cleaning agent/ Cleaner*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Bien-Air Dental S.A.*  
*Länggasse 60*  
*CH-2504 Biel/Bienne*  
*Switzerland*  
*Tel.: int. +41 (0)32 344 64 64*  
*office@bienair.com*
- **Information department:** *Product safety department*
- **Emergency telephone number:**  
*Swiss Toxicological information center*  
*E-Mail: info@toxi.ch*  
*24-h-Emergency number: From CH: 145*  
*From abroad: +41 44 251 51 51*

**2 Hazard identification**

- **Classification of the substance or mixture**



*GHS02 Flame*

*Flammable Aerosols - Category 1*

*H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.*



*GHS04 Gas cylinder*

*Gases Under Pressure - Compressed Gas H280*

*Contains gas under pressure; may explode if heated.*



*GHS08 Health hazard*

*Carcinogenicity - Category 1A*

*H350*

*May cause cancer.*

- **Label elements**

- **GHS label elements**

*The product is classified and labeled according to the Globally Harmonized System (GHS).*

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### · Hazard pictograms



GHS02 GHS04 GHS08

### · Signal word *Danger*

### · Hazard-determining components of labeling:

*ethanol*

### · Hazard statements

*Extremely flammable aerosol.**Contains gas under pressure; may explode if heated.**May cause cancer.*

### · Precautionary statements

*Keep out of reach of children.**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**Do not spray on an open flame or other ignition source.**Do not pierce or burn, even after use.**Wear eye protection / face protection.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

### · Classification system:

### · NFPA ratings (scale 0 - 4)



Health = 0

Fire = 4

Reactivity = 3

### · HMIS-ratings (scale 0 - 4)



Health = \*0

Fire = 4

Reactivity = 3

## 3 Composition/Information on ingredients

### · Chemical characterization: *Mixtures*

· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

### · Dangerous components:

|         |                    |                     |
|---------|--------------------|---------------------|
| 64-17-5 | <i>ethanol</i>     | <i>50-70% w/w *</i> |
| 75-28-5 | <i>isobutane</i>   | <i>10-20% w/w *</i> |
| 74-98-6 | <i>propane</i>     | <i>10-20% w/w *</i> |
| 67-63-0 | <i>propan-2-ol</i> | <i>1-10% w/w *</i>  |

\* Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

### · Description of first aid measures

· **After skin contact:** *Generally the product does not irritate the skin.*

· **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

· **After swallowing:** *If symptoms persist consult doctor.*

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Pressurized 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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Pressurized 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.
- **Storage class:** 2 B
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**64-17-5 ethanol**

EL STEL: 1000 ppm

EV TWA: 1,900 mg/m<sup>3</sup>, 1,000 ppm
**75-28-5 isobutane**

EL STEL: 1000 ppm

EX

EV TWA: 800 ppm

revoked as of 01/01/18

**74-98-6 propane**

EL Simple asphyxiant; EX

EV TWA: 1,000 ppm

revoked as of 01/01/18

**67-63-0 propan-2-ol**

EL STEL: 400 ppm

TWA: 200 ppm

EV STEL: 400 ppm

TWA: 200 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

- **Protection of hands:**



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**

Recommended thickness of the material:  $\geq 0.7$  mm

Butyl rubber, BR

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**

Value for the permeation: Level  $\leq 6$ 

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

|                          |                 |
|--------------------------|-----------------|
| · <b>Form:</b>           | Aerosol         |
| · <b>Color:</b>          | Colorless       |
| · <b>Odor:</b>           | Characteristic  |
| · <b>Odor threshold:</b> | Not determined. |

· **pH-value:** Not determined.· **Change in condition**

|                                       |                             |
|---------------------------------------|-----------------------------|
| · <b>Melting point/Melting range:</b> | Undetermined.               |
| · <b>Boiling point/Boiling range:</b> | Not applicable, as aerosol. |

· **Flash point:** -60 °C· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 425 °C· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.· **Explosion limits:**

|                 |           |
|-----------------|-----------|
| · <b>Lower:</b> | 1.7 Vol % |
| · <b>Upper:</b> | 15 Vol %  |

· **Vapor pressure at 20 °C:** 5,300 hPa· **Density at 20 °C:** 0.69 g/cm<sup>3</sup>· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not applicable.· **Solubility in / Miscibility with**· **Water:** Not miscible or difficult to mix.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

· **Solvent content:**· **Organic solvents:** 99.4 %· **Other information** No further relevant information available.

### 10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 64-17-5 ethanol

|            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | 7,060 mg/kg (rat) |
| Inhalative | LC50/4 h | 20,000 mg/l (rat) |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|           |                        |    |
|-----------|------------------------|----|
| 64-17-5   | ethanol                | 1  |
| 67-63-0   | propan-2-ol            | 3  |
| 89-82-7   | Pulegone               | 2B |
| 5989-27-5 | (R)-p-mentha-1,8-diene | 3  |

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT/TDG, ADR, IMDG, IATA</b></li> </ul>   | <p style="margin-left: 20px;">UN1950</p>   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT/TDG</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>    | <p style="margin-left: 20px;">Aerosols, flammable<br/>1950 AEROSOLS<br/>AEROSOLS<br/>AEROSOLS, flammable</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT/TDG (Transport dangerous goods):</b></li> </ul>  | <div style="text-align: center; margin-bottom: 10px;"> </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>  | <div style="text-align: center; margin-bottom: 10px;"> </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>   | <div style="text-align: center; margin-bottom: 10px;"> </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT/TDG, ADR, IMDG, IATA</b></li> </ul>   | <p style="margin-left: 20px;">Void</p>   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>   | <p style="margin-left: 20px;">Not applicable.</p>  |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> </ul> | <p style="margin-left: 20px;">Warning: Gases<br/>-<br/>F-D,S-U</p>   |

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|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul>  | <p>SW1 Protected from sources of heat.<br/>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.</p> <p>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.<br/>For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.<br/>For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>                            | Not applicable.  |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>DOT/TDG</b></li> <li>· <b>Quantity limitations</b></li> </ul> | <p>On passenger aircraft/rail: 75 kg<br/>On cargo aircraft only: 150 kg</p>  |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>   | <p>Code: E0<br/>Not permitted as Excepted Quantity</p>   |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>          | <p>1L<br/>Code: E0<br/>Not permitted as Excepted Quantity</p>  |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | UN 1950 AEROSOLS, 2.1  |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

67-63-0 | propan-2-ol

- **TSCA (Toxic Substances Control Act):**

|           |                        |        |
|-----------|------------------------|--------|
| 64-17-5   | ethanol                | ACTIVE |
| 75-28-5   | isobutane              | ACTIVE |
| 74-98-6   | propane                | ACTIVE |
| 67-63-0   | propan-2-ol            | ACTIVE |
| 78-93-3   | butanone               | ACTIVE |
| 124-38-9  | carbon dioxide         | ACTIVE |
| 89-78-1   | menthol                | ACTIVE |
| 89-82-7   | Pulegone               | ACTIVE |
| 4180-23-8 | trans-Anethole         | ACTIVE |
| 5989-27-5 | (R)-p-mentha-1,8-diene | ACTIVE |

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

64-17-5 | ethanol

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|           |                        |
|-----------|------------------------|
| 75-28-5   | isobutane              |
| 74-98-6   | propane                |
| 67-63-0   | propan-2-ol            |
| 78-93-3   | butanone               |
| 124-38-9  | carbon dioxide         |
| 89-78-1   | menthol                |
| 89-82-7   | Pulegone               |
| 4180-23-8 | trans-Anethole         |
| 5989-27-5 | (R)-p-mentha-1,8-diene |

- **Canadian Ingredient Disclosure list (limit 0.1%)**

|         |         |
|---------|---------|
| 64-17-5 | ethanol |
|---------|---------|

- **Canadian Ingredient Disclosure list (limit 1%)**

|         |             |
|---------|-------------|
| 67-63-0 | propan-2-ol |
|---------|-------------|

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02    GHS04    GHS08

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

*ethanol*

- **Hazard statements**

*Extremely flammable aerosol.*

*Contains gas under pressure; may explode if heated.*

*May cause cancer.*

- **Precautionary statements**

*Keep out of reach of children.*

*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*Do not spray on an open flame or other ignition source.*

*Do not pierce or burn, even after use.*

*Wear eye protection / face protection.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **National regulations:**

- **Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.*

- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 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.*

- **Department issuing SDS:** *Product safety department*

- **Date of the latest revision of the safety data sheet** *01/03/2020 / 11*

- **Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

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*DOT: US Department of Transportation**IATA: International Air Transport Association**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)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative***\* Data compared to the previous version altered.**

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