

SAFETY DATA SHEETS

This SDS packet was issued with item:

071313501

N/A

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Spraynet
- **Article number:** 1600036
- **Application of the substance / the preparation:**
For industrial use only
Cleaner for dental instruments
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Bien-Air USA, Inc.
17880 Skypark Circle
Suite140
IRVINE, CA 92614
USA

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Active substance with propellant

- **Declarable components:**

CAS no.		
64-17-5	ethanol	50-70%
106-97-8	butane	5.0-15%
74-98-6	propane	5.0-15%
67-63-0	isopropanol	1.0-4.9%

3 Hazards identification

- **Classification of the substance or mixture**
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
Warning! Pressurized container.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Risk phrases:**
Extremely flammable.
- **Safety phrases:**
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe aerosol.
Use only in well-ventilated areas.
- **Special labelling of certain preparations:**
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.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.
Keep out of the reach of children.
- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 4
Reactivity = 3

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	4	Fire = 4
REACTIVITY	3	Reactivity = 3

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

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:** 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.
Open and handle receptacle with care.
The product has been classified and marked in accordance with directives on hazardous materials.
Observe the general safety regulations when handling chemicals.
- **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.
Protect against electrostatic charges.
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:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Do not gas tight seal receptacle.

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- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Storage temperature between -4°F and +104°F
- Duration of storage: In original container, at least 6 years.
- **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.

- **Components with limit values at the workplace:**

64-17-5 ethanol (50-70%)

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

106-97-8 butane (5.0-15%)

REL	1900 mg/m ³ , 800 ppm
TLV	Varies mg/m ³ , 1000 ppm

74-98-6 propane (5.0-15%)

PEL	1800 mg/m ³ , 1000 ppm
REL	1800 mg/m ³ , 1000 ppm
TLV	Varies mg/m ³ , 1000 ppm

67-63-0 isopropanol (1.0-4.9%)

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Respiratory Protection:** Not required.
- **Material of gloves**
Suitable protective gloves: Nitril gloves, minimum thickness of 0.3 mm, e.g. Ultranitrl type 491.
Corresponds to the standards DIN/EN 374-2 and 374-3.
- **Break-trough time of glove material:**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Eye protector with side protection (framed eyeglasses) EN 166
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**
- **Appearance:**

Form:	Aerosol
Color:	Colorless
Odor:	Peppermint
- **Change in condition**

Melting point/Melting range:	Not applicable
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Boiling point/Boiling range:	Active substance: 172°F (78°C) ASTM D86 Not applicable, as aerosol.
Drip point:	Not applicable
Pour point:	Not determined
Flash point:	Active substance: 54°F (12°C) ASTM D92 Not applicable, as aerosol.
Ignition temperature:	> 689°F (> 365°C) ASTM E659
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
Explosion limits (@1013 mbar):	
Lower:	1.5 Vol %
Upper:	15.0 Vol %
Vapor pressure at 20°C (68 °F):	8300 hPa (6226 mm Hg)
Density:	Active substance: 0.79 g/cm ³ @ 68°F (20°C) ASTM D1217
Solubility in / Miscibility with Water:	Partly soluble.
Viscosity:	
Kinematic:	Active substance: 1.2 mm ² /s @ 104°F (40°C) ASTM D445
VOC content:	100 %
Other information	safety relevant data, which has to be considered as product specifications.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
> 2000 - < 5000 mg / kg (oral, rat)
> 5,100 mg/m³ 4h (inhalation, rat)
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Acquatic 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.

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

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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- DOT, IMDG, IATA UN1950

- DOT, IMDG, IATA



- Class 2.1

- Label 2.1

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special marking (ADR):** Contains: Hydrocarbons

- **EMS Number:** F-D,S-U

- **Transport/Additional information:**

- **IMDG**

- **Remarks:** Contains: Hydrocarbons

- **IATA**

- **Remarks:** Contains: Hydrocarbons

15 Regulatory information

- **Sara**

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

None of the ingredients is listed.

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

isopropanol

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

All ingredients are listed.

- **California Proposition 65**

- **Listed substances:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

67-63-0 isopropanol

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

A3

67-63-0 isopropanol

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **National regulations:** none

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.

· **Regulations / approvals / other listings:**

All major components are U.S. FDA listed for H1 Lubricants, or correspond to the current Pharmacopoeia or food grade requirements.

· **RoHS:**

This product conforms to the RoHS Directive in that the RoHS regulated materials are absent or their concentrations are significantly below regulatory thresholds.

· **International Approvals:**

TSCA (Toxic Substances Control Act, United States): all substances are registered and have CAS numbers.

DSL (Canada): all substances are registered or listed.

· **The product does not contain:**

Mineral oil, chlorine, nitrite, nitrite separators, formaldehyde, formaldehyde separators, triazine (HHT), boron, diethanolamine, NDELA, silicones, PCB, PCT, TCDD or other dioxine-containing substances.

· **Department issuing MSDS:** Product Safety Department

· **Editor's notice:**

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

· **Abbreviations and acronyms:**

RoHS: Restriction of Hazardous Substances

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organization for Standardization

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

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Material Safety Data Sheet
acc. to ISO/DIS 11014



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HMIS: Hazardous Materials Identification System (USA)

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

The asterisk (*) on the left side indicate the respective changes from the previous version.

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