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Safety Data Sheet acc. to OSHA HCS

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(s) identification

· Classification of the substance or mixture GHS02 Flame Flam. Aerosol 1 H222 Extremely flammable aerosol. GHS04 Gas cylinder H280 Contains gas under pressure; may explode if heated. Press. Gas GHS08 Health hazard Carc. 1A H350 May cause cancer. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS04 GHS02 GHS08 (Contd. on page 2)

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Signal word 1	(Contd. of page 1)	
Hazard-deter	mining components of labeling:	
ethanol		
Hazard staten	rents	
Extremely flan	nmable aerosol.	
Contains gas	under pressure; may explode if heated.	
May cause ca	ncer.	
Precautionar	y statements	
Keep away fre	om heat/sparks/open flames/hot surfaces No smoking.	
Do not spray	on an open flame or other ignition source.	
Pressurized c	ontainer: Do not pierce or burn, even after use.	
Wear eye prot	ection / face protection.	
If in eyes: Rin	se cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
Continue rins	ing.	
Protect from s	sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
Dispose of co	ntents/container in accordance with local/regional/national/international regulations.	
Classification	system:	
NFPA rating	s (scale 0 - 4)	
4	Health = 0	
	Fire = 4	
	Reactivity = 3	
HMIS-rating	s (scale 0 - 4)	
HEALTH *0	Health = *0	
FIRE 4	Fire = 4	
REACTIVITY 3	Reactivity = 3	
	1 -	

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangero	us components:	
64-17-5	ethanol	50-70%
75-28-5	isobutane	10-20%
	propane	10-20%
67-63-0	propan-2-ol	1-10%

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.

· Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents:
- CO2, 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.
- · Protective Action Criteria for Chemicals

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· PAC-1:			
64-17-5	ethanol		1,800 ppm
75-28-5	isobutane		5500* ppm
74-98-6	propane		5500* ppm
67-63-0	propan-2-ol		400 ppm
78-93-3	butanone		200 ppm
5989-27-5	(R)-p-mentha-1,8-diene		15 ppm
· PAC-2:			
64-17-5	ethanol	33	300* ppm
75-28-5	isobutane	17	7000** ppm
74-98-6	propane	17	7000** ppm
67-63-0	propan-2-ol	20	000* ppm
78-9 <i>3-3</i>	butanone	22	700* ppm

3989-27-3 (K)-p-menina-1,8-alene	07 ppm
· PAC-3:	
64-17-5 ethanol	15000* ppm
75-28-5 isobutane	53000*** ppm
74-98-6 propane	33000*** ppm
67-63-0 propan-2-ol	12000** ppm
78-93-3 butanone	4000* ppm
5989-27-5 (R)-p-mentha-1,8-diene	170 ppm

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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.

· Control parameters

	ponents with limit values that require monitoring at the workplace: 7-5 ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm	
	Long-term value: 1900 mg/m ³ , 1000 ppm	
	Short-term value: 1880 mg/m ³ , 1000 ppm	
75-28	8-5 isobutane	
TLV	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)	
74-98	8-6 propane	
PEL	Long-term value: 1800 mg/m ³ , 1000 ppm	
REL	Long-term value: 1800 mg/m³, 1000 ppm	
TLV	refer to Appendix F inTLVs&BEIs book; D, EX	
67-6.	3-0 propan-2-ol	
PEL	Long-term value: 980 mg/m ³ , 400 ppm	
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI	
Ingre	edients with biological limit values:	
67-6.	3-0 propan-2-ol	
	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)	
Addi	tional information: The lists that were valid during the creation were used as basis.	(Contd. on page

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- · 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: $\geq 0.7 \text{ mm}$

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 ≤ 6

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

• Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Aerosol	
Color:	Colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Not applicable, as aerosol.	
Flash point:	-60 °C (-140 °F)	
Flammability (solid, gaseous):	Not applicable.	

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· Ignition temperature:	425 °C (797 °F)
· 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:	
Lower:	1.7 Vol %
Upper:	15 Vol %
· Vapor pressure at 20 °C (68 °F):	5,300 hPa (400 mm Hg)
Density at 20 °C (68 °F):	0.69 g/cm ³ (5.76 lbs/gal)
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/wate	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.4 %
VOC content:	99.36 %
	685.6 g/l / 5.72 lb/gal
• Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· 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.

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• 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 (Natio	onal Toxicology Program)	
None of the	e ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)		

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.

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.

· UN-Number		
· DOT, ADR, IMDG, IATA	UN1950	
· UN proper shipping name		
· DOT	Aerosols, flammable	
$\cdot ADR$	1950 AEROSOLS	
· IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	

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Transport hazard class(es)	
DOT	
Class	2.1
Label	2.1
ADR	
2	
Class Label	2 5F Gases 2.1
	2.1
IMDG, IATA	
2	
Class	2.1
Label	2.1
Packing group	
DOT, ĂĎR, ÎMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases
Hazard identification number (Kemler code	
EMS Number: Stowage Code	F-D,S-U SWI Protected from sources of heat
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 lith
	Category A. For AEROSOLS with a maximum capacity of 1 lith
	Category B. For WASTE AEROSOLS: Category C, Clear
a	living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:
	Segregation as for class 9. Stow "separated from" class except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 75 kg
	On cargo aircraft only: 150 kg
ADR	
	Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

15 Regulatory information

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

	3 (Specific toxic chemical listings):	
67-63-0 p	ropan-2-ol	
TSCA (To.	xic Substances Control Act):	
64-17-5	ethanol	ACTIV
	isobutane	ACTIV
74-98-6	propane	ACTIV
67-63-0	propan-2-ol	ACTIV
78-93-3	butanone	ACTIV
124-38-9	carbon dioxide	ACTIV
89-78-1	menthol	ACTIV
89-82-7	Pulegone	ACTIV
4180-23-8	trans-Anethole	ACTIV
5989-27-5	(R)-p-mentha-1,8-diene	ACTIV
Hazardous	s Air Pollutants	
None of th	e ingredients is listed.	
Propositio	n 65	
Chemicals	known to cause cancer:	
89-82-7 P	ulegone	
Chemicals	known to cause reproductive toxicity for females:	
	e ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
	e ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
64-17-5 e	· ·	
-	nic categories	
	ironmental Protection Agency)	
78-93-3 b	utanone	
TLV (Thre	eshold Limit Value established by ACGIH)	
	hanol	A
64-17-5 e	ronan? ol	A
64-17-5 et 67-63-0 p	10pun-2-01	Л

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

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· Hazard pictograms



· 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 away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: 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:

· Department issuing SDS: Product safety department

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.

• Date of preparation / last revision 01/03/2020 / 11 · 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Aerosol 1: Aerosols - Category 1 Press. Gas: Gases under pressure - Compressed gas Carc. 1A: Carcinogenicity - Category 1A * Data compared to the previous version altered.