

Safety data sheet

according to 1907 / 2006 / EC, Article 31 / 12. 05. 2014

CLEANING SPRAY SPRAY

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

Product identifier

Tradename: Clean Spray

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Use of the substance / the mixture auxiliary agent in dentistry

Details of the supplier of the safety data sheet

Company name: Baumann Dental GmbH

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Postal code, Place: D-75210 Keltern

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Telephone: +49 (0) 7236-933690

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Department responsible for information: telephone: +49 (0) 7236-933690, e-mail: info@baumann-dental.de

Emergency telephone number: +49 (0) 7236-933 69 0

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008



GHS02 Flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container:
may burst if heated.



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness and dizziness.

Classification according to Directive 67/548/EWEC or Directive 1999/45/EC



Xi; Irritant

R36/38: Irritating to eyes and skin.



F+; Extremely flammable

R12: Extremely flammable.

R67: Vapours may cause drowsiness and dizziness.

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Particular hazard statements for humans and environment

The product is subject to labelling based on the calculation method of the "General Classification Guideline of the EU for Preparations" in the last amended version.

Classification system

The classification corresponds to the current EC lists, is however supplemented with information from the specialist literature and with company information.

Label elements

Labelling according to Regulation (EC) 1272/2008

The product is classified and labelled according to the CLP Regulation.

Hazard pictograms



GHS02



GHS07

Signal word Hazard

Hazard-determining components for labelling:

Propan-2-

Hazard statements

H222-H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness and 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.
P211	Do not spray on an open flame or other ignition source.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P305+P351+	IF IN EYES: Rinse cautiously with water for several minutes.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents / container in accordance with local / regional / national / international regulations.

Additional information:

Pressurised container. Protect from sunlight and temperatures exceeding 50°C. Do not open by force or burn, even after use.

Do not spray into flames or red-hot objects. Keep away from sources of ignition - no smoking.

Keep out of reach of children.

Other hazards

- Results of PBT and vPvB assessment
- PBT: not applicable.
- vPvB: not applicable.

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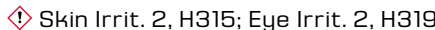


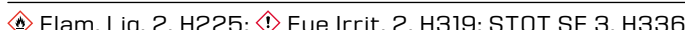

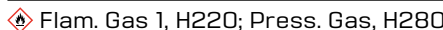


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3. Composition / information on ingredients

- Chemical characterisation: mixtures
- Description: mixture of substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS: 29387-86-8 EINECS: 249-598-7	Dowanol PnB  Xi R36/38 	25-50%
CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol  Xi R36;  F R11 R67 	25-50%
CAS: 74-98-6 EINECS: 200-827-9	Propane  F+ R12 	10-25%
CAS: 106-97-8 EINECS: 203-448-7	Butane  F+ R12 	2.5-10%

4. First aid measures

Description of first aid measures

If inhaled:

In case of unconsciousness place and transport in a stable lateral position.

Following skin contact:

Wash off immediately with soap and water and rinse thoroughly.

Following eye contact:

Rinse eyes under running water for several minutes with the eyelid open.
If symptoms persist, consult a physician.

If swallowed:

If symptoms persist, consult a physician. Rinse mouth and drink copious amounts of water.

Information for the physician:

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 Firefighting measures

Extinguishing media / suitable extinguishing media: CO₂, extinguishing powder or water spray.
Fight larger fires with water spray or alcohol-resistant foam.

Extinguishing media unsuitable for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

Special protective equipment: No special measures required.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: wear protective gear. Keep unprotected persons away.

Environmental precautions: Do not allow to enter the sewage system/surface water/groundwater. Methods and material for containment and cleaning up: ensure adequate ventilation.

Reference to other sections

- For information on safe handling, see Section 7.
- For information on personal protective equipment, see Section 8.
- For information on disposal, see Section 13.

7 Handling and Storage

Handling / precautions for safe handling

Ensure good ventilation/extraction at the workplace.
Open and handle container with care.

Notes on fire and explosion protection:

Keep sources of ignition away - no smoking.
Take measures against electrostatic charging.
Pressurised container. Protect from sunlight and temperatures exceeding 50°C (e.g. due to light bulbs).
Do not open by force or burn, even after use.
Do not spray into flames or red-hot objects.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements for storage rooms and containers:

Store in a cool place.
The official regulations for the storage of pressurised aerosol packaging must be observed.

Information on common storage:

Not required.

Further information on storage conditions:

Keep containers tightly closed.
Do not close the container gas-tight.
Store in cool and dry place in tightly closed containers.
Protect from heat and direct sunlight.

Storage class: 2B

Specific end use(s)

No further relevant information available.

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8 Exposure controls/personal protection

Additional information on the design of technical systems: no further information, see Section 7.

Control parameters:

Components with limit values to be monitored at the workplace:

67-63-0 Propan-2-ol

OEL long-term value: 500 mg/m³, 200 ml/m³
2(II);DFG, Y

74-98-6 Propane

OEL long-term value: 1800 mg/m³, 1000 ml/m³
4(II);DFG

106-97-8 Butane

OEL long-term value: 2400 mg/m³, 1000 ml/m³
4(II);DFG

Components with biological limit values:

67-63-0 Propan-2-ol

BLV 25 mg/l

Sample material: Whole blood

Sampling time: end of exposure or shift

Parameter: Acetone

25 mg/l

Sample material: Urine

Sampling time: end of exposure or shift

Parameter: Acetone

Additional information: the lists valid at the time of preparation served as a basis:

- Exposure controls
- Personal protective equipment:
- General protection and hygiene measures:
- Keep away from food, drink and animal feed.
- Take off contaminated, soaked clothing immediately.
- Wash hands prior to breaks and at the end of work.
- Do not inhale gases/vapours/aerosols.
- Avoid contact with eyes and skin.
- Respiratory protection: respiratory protection in case of insufficient ventilation.

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Hand protection:



Protective gloves

The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material taking into account breakthrough times, permeation rates and degradation.

Glove material

The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material

The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.

Gloves made of the following materials are suitable as splash protection: nitrile rubber, butyl rubber, fluorinated rubber (Viton)

Eye protection:



Tightly sealing safety goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General notes:

Appearance

Form:	Aerosol
Colour:	colourless
Odour:	characteristic

Change of state

Melting point/melting range:	Not determined.
Boiling point/boiling range:	-44 °C
Flash point:	-97 °C
Ignition temperature:	260 °C
Auto-ignition:	The product is not self-igniting.
Explosion hazard:	The product is not explosive, however, the formation of explosive vapour/air mixtures is possible.

Explosive limits

Lower	1.1 Vol %
Upper:	12.0 Vol %
Vapour pressure at 20 °C:	4000 hPa
Density at 20 °C:	0.727 g/cm ³
Solubility in / miscibility with water:	partially miscible.

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Viscosity:

Dynamic: not applicable.
Kinematic: not applicable.

Solvent content:

VOC (EU) 67 %
Solids content: 0
Other information: No further relevant information available.

10 Stability and reactivity

Reactivity / chemical stability

Thermal decomposition / conditions to avoid:

No decomposition if used as intended.

Possibility of hazardous reactions No hazardous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No hazardous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Classification-relevant LD/LC50 values:

29387-86-8 Dowanol PnB

Oral	LD50	>3300 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)

67-63-0 Propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

106-97-8 Butane

Inhalative	LC50/4 h	658 mg/l (rat)
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Primary irritant effect:

- on the skin: irritates the skin and mucous membranes.
- in the eyes: irritant effect.
- sensitisation: no sensitising effect known.
- additional toxicological information:

Based on the calculation method of the General Classification Guideline of the EU for preparations in the last amended version, the product exhibits the following hazards: irritant

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12 Ecological information

- Toxicity
- Aquatic toxicity: no further relevant information available.
- Persistence and degradability: no further relevant information available.
- Behaviour in environmental compartments:
- Bio-accumulative potential: no further relevant information available.
- Mobility in soil: no further relevant information available.

- Further ecological information:

General notes:

Water hazard class 1 (self-classification): slightly hazardous to water

Do not allow to enter groundwater, waters or the sewage system undiluted or in larger amounts.

- 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 waste. Do not allow to enter the sewage system.

European Waste Directory

16 00 00	WASTE NOT LISTED ELSEWHERE IN THE DIRECTORY
16 05 00	Gases in pressure vessels and spent chemicals
16 05 04	gases in pressure vessels containing dangerous substances (including halons)

Uncleaned packaging:

Recommendation: disposal in accordance with official regulations.

14 Transport Information

UN number

ADR, IMDG, IATA UN1950

UN proper shipping name

ADR 1950 PRESSURISED GAS PACKAGING

IMDG AEROSOLS

IATA AEROSOLS, flammable

Transport hazard classes

ADR



- Class 2.5F gases
- Hazard label 2.1
- IMDG, IATA
- Class 2.1
- Label 2.1

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IMDG, IATA



· Class 2.1
· Label 2.1

Packing group
ADR, IMDG, IATA not applicable

Environmental hazards:

Marine pollutant: No

Special precautions for user Attention gases

Kemler number: -

EMS number: F-D,S-U

Transport in bulk according to Annex II of the MARPOL Agreement 73/78 and according to the IBC Code
not applicable.

Transport/further information:

ADR

Exempted quantities (EQ): EO

Limited quantity (LQ): 1L

Transport category: 2

Tunnel restriction code D

Notes:

Limited quantity:

Maximum 30 kg per package (carton), apply "diamond with black corners label" to the carton.

UN "Model Regulation": UN1950, PRESSURISED GAS PACKAGING, 2.1

15 Regulatory information

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

Labelling according to Regulation (EC) 1272/2008

The product is classified and labelled according to the CLP Regulation.

Hazard pictograms



GHS02 GHS07

Signal word Hazard

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Hazard-determining components for labelling:

Propan-2-ol

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness and 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.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

National regulations:

Technical instructions air:

Class	Percentage in %
NK	67.0

Water hazard class: WGK 1 (self-classification): slightly hazardous to water.

Other regulations, restrictions and prohibition ordinances customs tariff number: 3506 10 00

Chemical safety assessment: a chemical safety assessment has not been conducted.

16 Other information

Relevant sentences

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R67 Vapours may cause drowsiness and dizziness.

Recommended restriction of use

Product for professional use only.

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The information contained in this safety data sheet is based to the best of our knowledge and belief on currently available information regarding the correct handling of the product under normal conditions. Any other use of this product in combination with other processes not included in this data sheet is the sole responsibility of the user. This document does not constitute an express or implied warranty as to product quality or suitability for a particular purpose.

Department issuing the data sheet: Product Safety Department

Contact person: Dr Metz

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)
IATA-DGR:	Dangerous Goods Regulations by the „International Air Transport Association“ (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the „International Civil Aviation Organization“ (ICAO)
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
IATA:	International Air Transport Association
GHS:	Globally Harmonized 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 per cent
LD50:	Lethal dose, 50 per cent

* Data changed versus the previous version

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