


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

- **1.1 Product identifier**
- **Trade name:** Lubrifluid
- **Article number:** 1600064
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:**
For industrial use only
Lubricant
- **1.3 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
- **1.4 Emergency telephone number:**
Abbreviated dialing: 145 (or: ++41 (0)44/ 251 51 51) Toxicological Info-Centre CH-Zurich

2 Hazards identification

- **2.1 Classification of the substance or mixture:**
 - **Classification according to Regulation (EC) No 1272/2008**
Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
F+; Extremely flammable
R12: Extremely flammable.
 - **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurised container.
 - **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
 - **2.2 Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:**
- 

F+ Extremely flammable
- **Risk phrases:**
12 Extremely flammable.
 - **Safety phrases:**
3 Keep in a cool place.
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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51 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.

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

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Active substance with propellant

- **Declarable, or hazardous components:**

- **CAS-no.**

EINECS: 265-151-9 Reg.nr.: 01-2119484659-18-0000	Low boiling point hydrogen treated naphtha, content of benzene: < 0.1% Xn R65; F R11 Flam. Liq. 2, H225; Asp. Tox. 1, H304	>20-<40%
EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Press. Gas C, H280	>20-<30%
EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220; Press. Gas C, H280	>20-<30%
NLP: 500-228-5 Reg.nr.: 01-2119537268-33-0000	1-Decene, dimer, hydrogenated Xn R20-65 Asp. Tox. 1, H304; Acute Tox. 4, H332	< 2.00%

- **Additional information:**

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

4 First aid measures

- **4.1 Description of 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.

- **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.

5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.

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- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 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

- **7.1 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 EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling 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.
Protect against electrostatic charges.
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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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 pressurised containers.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Optimal storage temperature between -20 °C and +40 °C.
Duration of storage: In original container, at least 3 years.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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- **8.1 Control parameters**

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

butane (10-25%)	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

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

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

- **Material of gloves**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

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.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

- **Penetration time of glove material**

The exact breakthrough 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

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Aerosol
Colour:	Colourless
Odour:	Peppermint

- **Change in condition:**

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	Not applicable, as aerosol.
Drip point:	Not applicable
Pour point:	Active substance: - 22 °C (ISO 3016)

- **Flash point:** Active substance: > 392 °C. (ISO 2592)

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits (@1013 mbar):**

Lower:	1.1 Vol %
Upper:	10.9 Vol %

- **Vapour pressure at 20 °C:** 8300 hPa

- **Density:** Active substance: 0.83 g/cm³ @ 20 °C (DIN 51757)

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- | | |
|--|---|
| · Solubility in / Miscibility with water: | Insoluble. |
| · Viscosity: Kinematic: | Active substance: 15 mm ² /s @ 40 °C (ISO 3104) |
| · 9.2 Other information: | safety relevant data, which has to be considered as product specifications. |

10 Stability and reactivity

- **10.1 Reactivity** None known if used as directed.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values 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.
- **Sensitisation:** No sensitising effects known.

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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.

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- **European waste catalogue**

16 05 04	gases in pressure containers (including halons) containing dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA** UN1950

- **14.2 UN proper shipping name**

- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**



- **Class** 2.1
- **Label** 2.1

- **14.4 Packing group**

- **ADR, IMDG, IATA** Not applicable

- **14.5 Environmental hazards:**

- **Marine pollutant:** No

- **14.6 Special precautions for user**

- **Danger code (Kemler):** Warning: Gases.
- **EMS Number:** -
- **EMS Number:** F-D,S-U

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
- Not permitted as Excepted Quantity

- **Transport category** 2

- **Tunnel restriction code** D

- **Remarks:** Contains: Hydrocarbons

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· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Remarks:	Contains: Hydrocarbons
· IATA	
· Remarks:	Contains: Hydrocarbons
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
This preparation does not contain any SVHC ("Substances of Very High Concern")
- **15.2 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.

- **Regulations / approvals / listings:**
All major components are U.S. FDA listed for H1 Lubricants, or correspond to the current Pharmacopoeia or food grade requirements.
All contents comply with current pharmacological or food grade standards.
Information on REACH registration numbers in section 3:
In case of lack of REACH registration numbers on mentioned hazardous substances at the end of 2010, then these numbers will be known and indicated only in section 3 within its tonnage band for registration, after the end of 2013, respectively by the end of 2018, or are exempt from the REACH regulation (e.g. polymers).
- **RoHS:**
The product is compliant with European Directives 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.
The following substances ARE NOT contained:
Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PDBE) and / or polybrominated biphenyls (PBB), lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr⁶⁺-compounds.
- **IP346:**
The contained refined mineral oils are exempt of labelling.
The content of polycyclic aromatic hydrocarbons (PCA) according to IP346 is < 3% (DMSO-extract).
- **Relevant phrases**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

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- R11 Highly flammable.
- R12 Extremely flammable.
- R20 Harmful by inhalation.
- R65 Harmful: may cause lung damage if swallowed.

- **Department issuing MSDS:** Product Stewardship

- **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:**

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

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)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

CLP: Classification, Labeling and Packaging (European GHS)

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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

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