

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071313303

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

71366814 71449040



**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

070499814 273045182

## 1 Identification

- **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 USA, Inc.  
17880 Skypark Circle  
Suite140  
IRVINE, CA 92614  
USA  
office@bienair.com
- **1.4 Emergency telephone number:**  
Within USA and Canada . : 1-800-424-9300  
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

- **2.1 Classification of the substance or mixture**
- **Information concerning particular hazards for human and environment:**  
The product has to be labeled 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.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**  

  
 GHS02 GHS04
- **Signal word** Danger
- **Hazard statements**  
H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.
- **Precautionary statements**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P211 Do not spray on an open flame or other ignition source.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P403 Store in a well-ventilated place.
- **Hazard description:**
- **WHMIS-symbols:**  
A - Compressed gas

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B5 - Flammable aerosol



- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 0  
Fire = 4  
Reactivity = 3
- **HMIS-ratings (scale 0 - 4)**  
Health = 0  
Fire = 4  
Reactivity = 3
- **2.3 Other hazards** None

### 3 Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Active substance with propellant

- **Declarable components:**  
**CAS no.**

64742-49-0	Low boiling point hydrogen treated naphtha, content of benzene: < 0.1%	>20-<40%
74-98-6	propane	>20-<30%
106-97-8	butane	>20-<30%
68037-01-4	1-Decene, homopolymer, hydrogenated	>5.0-<15%

- **Additional information:** Not mentioned CAS no. 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 Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **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.

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## 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 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.
- **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 pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Storage temperature between -4°F and +104°F  
Optimal storage temperature between -20 °C and +40 °C.  
Duration of storage: In original container, at least 3 years.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **7.3 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.
- **8.1 Control parameters**

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

**74-98-6 propane (>10-<30%)**

EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1.000 ppm
PEL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	refer to Appendix F in TLVs and BEIs book

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### 106-97-8 butane (>10-<30%)

EL (Canada)	Short-term value: 750 ppm Long-term value: 600 ppm
EV (Canada)	Long-term value: 800 ppm
REL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV (USA)	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm

- **Additional information:** The lists that were valid during the creation 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 (recommended):**  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN374.  
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.
- **Breakthrough 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 (recommended):**  
Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010
- **Body protection (recommended):** Protective work clothing

## 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Aerosol
<b>Color:</b>	Colorless
<b>Odor:</b>	Peppermint
- **Change in condition:**

<b>Melting point/Melting range:</b>	Not applicable
<b>Boiling point/Boiling range:</b>	Active substance: > 572°F (> 300 °C) (DIN 51751 / ASTM D86) Not applicable, as aerosol.
- **Flash point:**

Active substance:	> 392°F (> 200 °C) (ISO 2592 / ASTM D92)
	Not applicable, as aerosol.
- **Ignition temperature:**

Active substance:	> 662°F (> 350 °C) (DIN 51794 / ASTM E659)
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- **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.
- **Vapor pressure at 20 °C (68 °F):** 8300 hPa (6226 mm Hg)

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| · <b>Density:</b>                                | Active substance: 0.83 g/cm <sup>3</sup> @ 68°F (20 °C) (DIN 51757 / ASTM D1217) |
| · <b>Solubility in / Miscibility with Water:</b> | Insoluble.   |
| · <b>Viscosity Kinematic:</b>                    | Active substance: 15 mm <sup>2</sup> /s @ 104°F (40 °C) (ISO 3104 / ASTM D445)   |
| · <b>9.2 Other information:</b>                  | 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.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidizing 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 (in case of fire or oxidation):**  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
> 2000 - < 5000 mg / kg (oral, rat)  
> 5,100 mg/m<sup>3</sup> 4h (inhalation, rat)

### ATE (Acute Toxicity Estimates)

Dermal	LD50	18832 mg/kg (rabbit)
Inhalative	LC50/4 h	642 mg/L

### 106-97-8 butane

Inhalative	LC50/4 h	658 mg/L (rat)
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### 68649-11-6 1-Decene, dimer, hydrogenated

Inhalative	LC50/4 h	11 mg/L (ATE)
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- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

### · Carcinogenic categories

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

None of the ingredients is listed in groups 1, 2A, or 2B.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

## 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 of together with household garbage. Do not allow product to reach sewage system.
- **Used containers**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **14.1 UN-Number**
- **DOT, TDG, IMDG, IATA** UN1950
- **DOT** Aerosols, flammable
- **TDG** 1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **DOT**



- **Hazard Classification:** 2.1
- **Label** 2.1

- **IMDG, IATA**



- **Hazard Classification:** 2.1
- **Label** 2.1
- **DOT, TDG, IMDG, IATA** not applicable

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- |  |  |                        |
|--|--|------------------------|
| <ul style="list-style-type: none"> <li>• <b>14.5 Environmental hazards</b></li> <li>• <b>Marine pollutant (according to IMDG):</b> No</li> </ul>     |  |                        |
| <ul style="list-style-type: none"> <li>• <b>14.6 Special precautions for user</b></li> <li>• <b>EMS Number:</b></li> </ul>                           | Warning: Gases<br>F-D,S-U                            |                        |
| <ul style="list-style-type: none"> <li>• <b>Transport/Additional information:</b></li> <li>• <b>DOT</b></li> <li>• <b>Remarks:</b></li> </ul>        |  | Contains: hydrocarbons |
| <ul style="list-style-type: none"> <li>• <b>TDG</b></li> <li>• <b>Excepted quantities (EQ)</b></li> </ul>  | Code: E0<br>Not permitted as Excepted Quantity       |                        |
| <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> | 1L<br>Code: E0<br>Not permitted as Excepted Quantity |                        |
| <ul style="list-style-type: none"> <li>• <b>UN "Model Regulation":</b></li> </ul>  | UN1950, Aerosols, 2.1                                |                        |

## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed or exempt from notification requirements.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients is listed.
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL) (-)**  
p-menthan-3-one  
4,5,6,7-Tetrahydro-3,6-dimethylbenzofurane
- **Canadian Non Domestic Substances List (NDSL)**  
Substance is not listed.  
p-menthan-3-one  
4,5,6,7-Tetrahydro-3,6-dimethylbenzofurane
- **Canadian Ingredient Disclosure list (limit 0.1%)**  
None of the ingredients is listed.
- **Canadian Ingredient Disclosure list (limit 1%)**  
106-97-8 butane
- **Canadian Environmental Protection Act (CEPA), Schedule 1:**  
None of the ingredients is listed.
- **Labelling according to Regulation (EC) No 1272/2008**  
GHS label elements are issued under section 2.

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- **National regulations:**  
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **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 / other listings:**  
All major components are U.S. FDA listed for H1 Lubricants, or correspond to the current Pharmacopoeia or food grade requirements.
- **H.R.2420:**  
This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.
- **IP346:**  
The mineral oil used in this product passes IP346 for DMSO extractable PAH's (Polycyclic aromatic hydrocarbons).
- **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.
- **Date of preparation / last revision** 06/25/2015 / 4
- **Abbreviations and acronyms:**  
ICAO: International Civil Aviation Organisation  
RoHS: Restriction of Hazardous Substances  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Information System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
VOC: Volatile Organic Compounds (USA, EU)  
ISO: International Organisation for Standardisation  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
TDG: Transportation of Dangerous Goods (Canada)  
PBT: Persistent, Bioaccumulative and Toxic chemicals  
vPvB: very Persistent and very Bioaccumulative chemicals  
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
Press. Gas: Gases under pressure: Compressed gas
- **\* 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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