

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 1

Revision: 16.03.2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· Trade name: **PROLUBE SYN GREASE**

· Article number: 96450001

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC24 Lubricants, greases, release products

· **Process category**

PROC11 Non industrial spraying

PROC7 Industrial spraying

· **Application of the substance / the mixture** Grease

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

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· **Further information obtainable from:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

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IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

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· **1.4 Emergency telephone number:**

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### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

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

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

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Trade name: **PROLUBE SYN GREASE**

(Contd. of page 1)

· **Hazard pictograms**

GHS02    GHS07

· **Signal word** *Danger*· **Hazard-determining components of labelling:***pentane*· **Hazard statements***H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.**H336 May cause drowsiness or dizziness.**H412 Harmful to aquatic life with long lasting effects.*· **Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P211 Do not spray on an open flame or other ignition source.**P251 Do not pierce or burn, even after use.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

|  |                          |   |        |
|--|--------------------------|---|--------|
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx | butane (< 0.1% butadine) | Flam. Gas 1, H220<br>Press. Gas C, H280   | 25-50% |
| CAS: 109-66-0<br>EINECS: 203-692-4<br>Reg.nr.: 01-2119459286-30-xxxx | pentane                  | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>STOT SE 3, H336 | 10-25% |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 012119486944-21-xxxx   | propane                  | Flam. Gas 1, H220<br>Press. Gas C, H280   | 10-25% |

· **Ingredients according to Detergents Regulation 648/2004/EC** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.· **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.

### SECTION 5: Firefighting measures

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

GB

(Contd. on page 3)

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

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Trade name: **PROLUBE SYN GREASE**

(Contd. of page 2)

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
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:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### 106-97-8 butane (< 0.1% butadiene) (25-50%)

|                     |   |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm<br>Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm<br>Carc (if more than 0.1% of buta-1.3-diene) |
|---------------------|---|

#### 109-66-0 pentane (10-25%)

|                        |  |
|------------------------|--|
| WEL (Great Britain)    | Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm  |
| IOELV (European Union) | Long-term value: 3000 mg/m <sup>3</sup> , 1000 ppm |

- **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:** Filter AX
- **Protection of hands:**
- **Material of gloves**  
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**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

(Contd. on page 4)

GB

## Safety data sheet

### According to 1907/2006/EC, Article 31 REACH

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Version: 1

Revision: 16.03.2018

Trade name: **PROLUBE SYN GREASE**

(Contd. of page 3)

· *Not suitable are gloves made of the following materials: Strong material gloves*

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

|                           |                                    |
|---------------------------|------------------------------------|
| · <b>Form:</b>            | Aerosol                            |
| · <b>Colour:</b>          | According to product specification |
| · <b>Odour:</b>           | Characteristic                     |
| · <b>Odour threshold:</b> | Not determined.                    |

##### · Change in condition

|   |                             |
|---|-----------------------------|
| · <b>Melting point/freezing point:</b>            | Undetermined.               |
| · <b>Initial boiling point and boiling range:</b> | Not applicable, as aerosol. |

· **Flash point:** <0 °C· **Flammability (solid, gas):** Not applicable.· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product does not present an explosion hazard.

##### · Explosion limits:

|                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

· **Vapour pressure:** Not determined.· **Density:** Not determined.· **Bulk density:** 660 kg/m<sup>3</sup>· **Relative density:** Not determined.· **Vapour density:** Not determined.· **Evaporation rate:** Not applicable.

##### · Solubility in / Miscibility with water:

Insoluble.

· **Partition coefficient: n-octanol/water:** Not determined.

##### · Viscosity:

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

##### · Solvent content:

|                            |           |
|----------------------------|-----------|
| · <b>Organic solvents:</b> | 70.0 %    |
| · <b>EU-VOC:</b>           | 700.0 g/l |
| · <b>EU-VOC</b>            | 70.00 %   |
| · <b>Swiss VOC:</b>        | 70.00 %   |

· **Solids content:** 21.9 %· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

#### · 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **10.3 Possibility of hazardous reactions** No dangerous reactions known.· **10.4 Conditions to avoid** No further relevant information available.· **10.5 Incompatible materials:** No further relevant information available.· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

GB

(Contd. on page 5)

## Safety data sheet

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(Contd. of page 4)

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### 109-66-0 pentane

|            |              |   |
|------------|--------------|---|
| Oral       | LD50         | >16,000 mg/kg (Rat)                               |
| Dermal     | LD50         | >2,500 mg/kg (Rat)                                |
|            |              | >5,000 mg/kg (Rabbit)                             |
| Inhalative | LC50 / 4 h   | >100 mg/ltr (Rat)                                 |
|            | LC50 / 96 h  | 4.26 mg/ltr (Oncorhynchus mykiss (Rainbow trout)) |
|            | EC 50 / 48 h | 2.7 mg/ltr (Daphnia magna (water flea))           |
|            | EC 50 / 72 H | 10.7 (-)  |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### SECTION 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations
- **Uncleaned packaging:**
- **Recommendation:** Disposal in accordance with administrative provisions

### SECTION 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

(Contd. on page 6)

GB

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According to 1907/2006/EC, Article 31 REACH

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Revision: 16.03.2018

Trade name: **PROLUBE SYN GREASE**

(Contd. of page 5)

## · 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 Void

- 14.5 Environmental hazards: Not applicable.

## · 14.6 Special precautions for user

- Danger code (Kemler): Warning: Gases.
- EMS Number: -
- Stowage Code F-D,S-U
- Segregation Code SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre:  
Category A. For AEROSOLS with a capacity above 1 litre:  
Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 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.

## · 14.7 Transport in bulk according to Annex II of Marpol 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

## · IMDG

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

## · UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

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

- Reg. (EC) n. 1272/2008 - CLP;
- Reg. (EC) n. 1907/2006 – Reach;
- Reg. (EC) n. 2015/830 annex II of REACH;
- Reg. (EC) n. 648/04 (Detergents);
- Reg. (EC) n. 528/12 (Biocides BPR);
- Reg. (EC) n. 1223/2009 (Cosmetics);
- Dir. 06/08 ADR – RID - IMDG - IATA;
- Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);

(Contd. on page 7)

# Safety data sheet

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(Contd. of page 6)

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

· **National regulations:**· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK    | 50-75      |

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 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.

- **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.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:**

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- **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  
 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)  
 VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)  
 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  
 Flam. Gas 1: Flammable gases – Category 1  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas C: Gases under pressure – Compressed gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

GB

(Contd. on page 8)

**Safety data sheet**  
According to 1907/2006/EC, Article 31 REACH

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Trade name: **PROLUBE SYN GREASE**

(Contd. of page 7)

### Annex: Exposure scenario

**· Short title of the exposure scenario**

For the finished product.  
PROLUBE SYN GREASE

**· Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**· Product category PC24** Lubricants, greases, release products

**· Process category**

PROC11 Non industrial spraying  
PROC7 Industrial spraying

**· Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.

**· Conditions of use**

**· Duration and frequency** 5 workdays/week.

**· Physical parameters**

**· Physical state** Aerosol

**· Concentration of the substance in the mixture** The substance is main component.

**· Used amount per time or activity** According to directions for use.

**· Other operational conditions**

**· Other operational conditions affecting environmental exposure** No special measures required.

**· Other operational conditions affecting worker exposure**

Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.

**· Other operational conditions affecting consumer exposure** No special measures required.

**· Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

**· Risk management measures**

**· Worker protection**

**· Organisational protective measures** No special measures required.

**· Technical protective measures**

Provide explosion-proof electrical equipment.  
Ensure that suitable extractors are available on processing machines

**· Measures for consumer protection** Ensure adequate labelling.

**· Environmental protection measures**

**· Water** No special measures required.

**· Disposal measures** Ensure that waste is collected and contained.

**· Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**· Waste type** Partially emptied and uncleaned packaging

**· Exposure estimation**

**· Consumer** Not relevant for this Exposure Scenario.

**· Guidance for downstream users** No further relevant information available.