

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

Printing date 24.01.2014

Version number 2

Revision: 24.01.2014

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

- **Product identifier**
- **Trade name:** Eurolub Starthilfe-Spray - 400 ml
- **Article number:** 00269 3
- **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  
 SU21 Consumer uses: Private households / general public / consumers  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the preparation:** in accordance with product designation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 EUROLUB GmbH  
 Freisinger Strasse 25-27  
 85386 Eching bei München  
  
 Telefon: 08165 / 95 91 - 0  
 Fax: 08165 / 95 91 - 20  
 Email: info@eurolub.de
- **Further information obtainable from:**  
 Herr Günter Dietz  
 Telefon: +49-(0)8165 / 95 91-0 (über Zentrale vermittelt)  
 Email: info@eurolub.de
- **Emergency telephone number:**  
 Beratungsstelle bei Vergiftungen, Mainz  
 Tel. 0049 (0) 6131 / 19240

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
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.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12:	Extremely flammable.
R52/53-66-67:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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- **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.  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
Warning! Pressurized container.
  - **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- 
- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms** GHS02, GHS07
  - **Signal word** Danger
  - **Hazard-determining components of labelling:**  
pentane  
diethyl ether
  - **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.
  - **Precautionary statements**  
P102 Keep out of reach of children.  
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/protective clothing/eye protection/face protection.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
  - **Additional information:**  
EUH066 Repeated exposure may cause skin dryness or cracking.
  - **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 substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	50-100%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	10-<25%

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CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1	pentane Xn R65;  F+ R12;  N R51/53 R66-67 Flam. Liq. 1, H224;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336	15-<20%
CAS: 60-29-7 EINECS: 200-467-2 Index number: 603-022-00-4	diethyl ether Xn R22;  F+ R12 R19-66-67 Flam. Liq. 1, H224;  Acute Tox. 4, H302; STOT SE 3, H336	3-<10%
CAS: 64742-49-0 EINECS: 265-151-9 Index number: 649-328-00-1	Naphtha (petroleum), hydrotreated light Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	3-<10%
CAS: 92062-15-2 EINECS: 295-529-9 Index number: 649-341-00-2	Solvent naphtha (petroleum), hydrotreated light naphthenic Xn R65;  Xi R38;  F R11;  N R51/53 R67 Muta. Cat. 2 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	3-<10%
· <b>Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>		
aliphatic hydrocarbons		≥ 30%
· <b>Additional information:</b> For the wording of the listed risk phrases refer to section 16.		

#### 4 First aid measures

- **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.
- **Information for doctor:**
- **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 agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.

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- **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.
- **Methods and material for containment and cleaning up:** 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.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Recommended storage temperature: 10-30 °C.
- **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.
- **Control parameters**

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

### 109-66-0 pentane

IOELV	Long-term value: 3000 mg/m <sup>3</sup> , 1000 ppm
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### 60-29-7 diethyl ether

IOELV	Short-term value: 616 mg/m <sup>3</sup> , 200 ppm
	Long-term value: 308 mg/m <sup>3</sup> , 100 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** When used properly and under normal conditions, breathing protection is not required.
- **Protection of hands:** Not required.
- **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.
- **As protection from splashes gloves made of the following materials are suitable:** PVC or PE gloves

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

**Form:** Aerosol  
**Colour:** Colourless

· **Odour:** Characteristic· **Odour threshold:** Not determined.· **pH-value:** Not applicable for an aerosol \*· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Not applicable, as aerosol.· **Flash point:** Not applicable, as aerosol.· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 170 °C· **Decomposition temperature:** Not determined.· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Protect from sunlight and temperatures above 50 °C. Development of explosive vapor / air mixtures.· **Explosion limits:****Lower:** 1,4 Vol %**Upper:** 10,9 Vol %· **Vapour pressure at 20 °C:** 4200 hPa· **Density at 20 °C:** 0,633 g/cm<sup>3</sup>· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not applicable.· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Other information**

\* The final mixture in the aerosol is formed only after the addition of the pressurized gas. Some data are not measurable in a hermetically sealed, pressurized container.

## 10 Stability and reactivity

· **Reactivity**· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **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 relevant for classification:**

### 106-97-8 butane

Inhalative	LC50/4 h	658 mg/l (rat)
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### 74-98-6 propane

Inhalative	LC50/4 h	>20 mg/l (rat)
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### 60-29-7 diethyl ether

Oral	LD50	1215 mg/kg (rat)
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Inhalative	LC50/4 h	73000 mg/l (rat)
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### 64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>2000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rabbit)
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Inhalative	LC50/4 h	>5 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

### 64742-49-0 Naphtha (petroleum), hydrotreated light

EC50	1-10 mg/l (Algen)
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	1-10 mg/l (aquatische Invertebraten)
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LC50	1-10 mg/l (fish)
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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 05 04*	gases in pressure containers (including halons) containing dangerous substances
15 01 04	metallic packaging

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

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1950

- **UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

- **Transport hazard class(es)**

- **ADR**



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

- **IMDG, IATA**



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

- **Packing group**
- **ADR, IMDG, IATA** Void

- **Environmental hazards:**
- **Marine pollutant:** No

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

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1

## 15 Regulatory information

· **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.

· **Relevant phrases**

- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R11 Highly flammable.
- R12 Extremely flammable.
- R19 May form explosive peroxides.
- R22 Harmful if swallowed.
- R38 Irritating to skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· **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 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 percent
- LD50: Lethal dose, 50 percent