



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

### Product identifier

**Name of product** gleitmo 100 S SPRAY

### Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Aerosol  
Lubricant

### Details of the supplier of the safety data sheet

#### Manufacturer/distributor

FUCHS LUBRITECH GMBH  
Werner-Heisenberg-Straße 1, D-67661 Kaiserslautern/Germany  
Phone +49 (0) 6301 3206 - 0, Fax +49 (0) 6301 3206 - 940  
E-Mail reach@fuchs-lubritech.de  
Internet www.fuchs-lubritech.com

#### Advice

Product Safety Management  
Phone +49 (0) 6301 3206 - 0  
Fax +49 (0) 6301 3206 - 940

#### Emergency telephone number

**Emergency advice** +49 (0)171 / 4632154

No information available.

## SECTION 2: Hazards identification

### Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC

F+; R12

#### R-phrases

12 Extremely flammable.

### Label elements

#### Labelling according to 67/548/EEC or 1999/45/EC

#### Remarks for labelling

The product is classified and labelled in accordance with EC directives.  
Classification happened on the basis of calculation methods of preparation directive (1999/45/EC).

**F+** Extremely flammable



#### R-phrases

12 Extremely flammable.

#### S-phrases

16 Keep away from sources of ignition - No smoking.  
23 Do not breathe spray.  
24 Avoid contact with skin.  
51 Use only in well-ventilated areas.

#### Hazardous ingredients for labeling

butane, propane

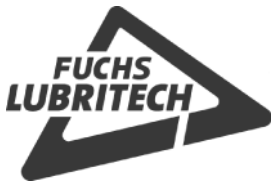
#### Special rules for supplemental label elements for certain mixtures

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.  
Keep away sources of ignition - don't smoke  
If possible work in the open air or in well-ventilated rooms.

#### Other hazards

#### Information pertaining to special dangers for human and environment

Application may cause development of explosive / inflammable vapour-air-mixtures  
May be irritating to eyes, at repeated exposure irritating to skin



### SECTION 3: Composition/ information on ingredients

#### Mixtures

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
67-63-0	200-661-7	propan-2-ol	<= 10	F R11; Xi R36; R67
74-98-6	200-827-9	propane	10 - 15	F+ R12
106-97-8	203-448-7	butane	50 - 70	F+ R12
64742-48-9	265-150-3	Mixture of hydrocarbons, de-aromatized	< 5	Xn; R10-65-66-67

#### REACH

CAS No	Name	REACH registration number
74-98-6	propane	Exempt
106-97-8	butane	Exempt

#### Description

propellant: propane / butane  
Active agent: mineral oil, additives, solid lubricants

#### Additional advice

none at appropriate handling and storage

### SECTION 4: First aid measures

#### Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately, don't leave to dry.

##### In case of inhalation

Ensure of fresh air.  
Remove from danger zone  
In the event of symptoms refer for medical treatment.

##### In case of skin contact

In case of contact with skin wash off immediately with soap and water.  
Don't use organic solvents  
Consult a doctor if skin irritation persists.

##### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

##### In case of ingestion

Do not induce vomiting.  
If swallowed seek medical advice immediately and show the doctor packing or label.

#### Most important symptoms and effects, both acute and delayed

##### Physician's information / possible symptoms

The following symptoms may occur:  
Coughing  
Anaesthetic state  
Headache  
Confusion

##### Physician's information / possible dangers

Aspiration hazard when vomiting after swallow up

#### Indication of any immediate medical attention and special treatment needed

##### Treatment (Advice to doctor)

Treat symptoms.

### SECTION 5: Firefighting measures

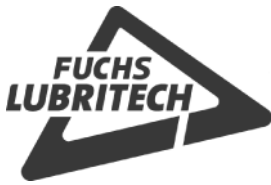
#### Extinguishing media

##### Suitable extinguishing media

Foam  
Dry fire-extinguishing substance  
Carbon dioxide  
Water spray jet

##### Extinguishing media which must not be used for safety reasons

Full water jet



**Special hazards arising from the substance or mixture**

Fire gas of organic material has to be classed invariably as respiratory poison.

**Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

**Additional information**

Cool endangered containers with water spray jet.

Explosion risk in case of longer heating

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**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Keep away sources of ignition.

Avoid contact with skin and eyes

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Suppress gases/vapours/mists with water spray jet

Do not discharge into the subsoil/soil.

**Methods and material for containment and cleaning up**

Send in suitable containers for recovery or disposal.

Take up with absorbent material (e.g. general-purpose binder).

**Additional Information**

Informations for disposal see chapter 13.

**Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**Precautions for safe handling**

**Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking

The product is extremely flammable.

Vapours can form an explosive mixture with air.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep in closed original container.

Don't store in staircases and passage-ways

**Advice on storage compatibility**

Do not store together with oxidising and self-inflammable materials.

**Further information on storage conditions**

Keep container tightly closed, store at cool and aired place, open and handle carefully.

Protect from heat and direct solar radiation.

Keep container dry.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Recommended storage temperature: room temperature.

**Information on storage stability**

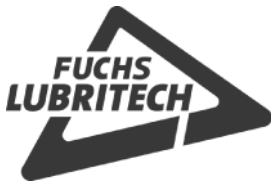
Storage time: 24 months.

**Storage group** 2B

**Fire class** B

**Specific end use(s)**

No information available.



## ! SECTION 8: Exposure controls/personal protection

### Control parameters

### Additional advice

As basis for this information served the valid references.

### Exposure controls

#### Respiratory protection

Not required at determined application

### ! Hand protection

As the product is a preparation of several substances, the actual resistance of the materials used for gloves cannot be scientifically calculated; it is therefore mandatory to check this before using the product.

Wear gloves of PVC at prolonged or intensive skin contact

Recommended:

### Eye protection

tightly fitting goggles, in case of splashing

### Skin protection

Usual working clothes for chemical industries

### General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols

### Hygiene measures

Cloths contaminated with product should not be kept in trouser pockets.

Follow general rules of industrial hygiene for safe handling of chemical products

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

Keep away from food and drink.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

### Additional advice on system design

Use only in well-ventilated places

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### Form

aerosol

#### Colour

black

#### Odour

like petrol (gasoline )

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>					not applicable
<b>boiling range</b>	not applicable				Aerosols
<b>Flash point</b>	< 0 °C				Active agent + solved propellant pro rata
<b>Autoignition</b>					unknown
<b>Lower explosion limit</b>	1,7 Vol-%				
<b>Upper explosion limit</b>	11,1 Vol-%				
<b>Vapour pressure</b>	2,4 - 3 bar	20 °C			Aerosol can pressure
<b>Density</b>	0,7 - 0,73 g/cm <sup>3</sup>	20 °C			Active agent + solved propellant pro rata
<b>Solubility in water</b>					more or less insoluble

### Oxidizing properties

no

### Explosive properties

In and after use danger of production of inflammable compounds

Danger of bursting when heating over 50 °C



**Other information**

Vapours are heavier than air.  
flammable liquid

**SECTION 10: Stability and reactivity**

**Reactivity**

No information available.

**Chemical stability**

No information available.

**Possibility of hazardous reactions**

No information available.

**Conditions to avoid**

Because of the high vapour pressure, containers are liable to burst if temperature rises.  
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

**Incompatible materials**

**Materials to avoid**

Reactions with oxidising agents.

**Hazardous decomposition products**

none at appropriate handling and storage

**Thermal decomposition**

Remark No decomposition if used as directed.

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>				not determined
<b>Irritability skin</b>				frequent and/or persistent contact may cause skin irritation
<b>Irritability eye</b>	may have irritating effect			if splash reaches eye
<b>Skin sensitization</b>	No sensitizing effect known			

**Experiences made from practice**

Frequent contact specially if dried out may cause skin and eye irritations.

**Additional information**

No toxic data available.  
The product was classified on the basis of the calculation procedure of the directive 67/548/EEC (conventional method).

**SECTION 12: Ecological information**

**Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>				not determined

**Persistence and degradability**

**Biological**

**degradability**

not determined

**Bioaccumulative potential**

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.  
preparation is water insoluble and does not formate emulsion

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment**



No information available.

#### Other adverse effects

#### Behaviour in sewage plant

Product gets duly not into waste water before it is not treated according to the local regulations.

#### General regulation

Ecological dates are not available.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

### SECTION 13: Disposal considerations

#### Waste treatment methods

#### Recommendations for the product

Disposal according to local authority prescriptions

#### Recommendations for packaging

Totally emptied packaging may be taken for recycling.

totally discharged and depressurized sprayer: EWC 15 01 04

Dispose one-trip container according to local authority prescriptions

#### General information

Ultimately responsible for correct classification is the waste producer, as the EWC names different codes for different origins of same waste

### ! SECTION 14: Transport information

#### ! Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS, 2.1, (D), Classification code: 5F

Minor quantities are not considered

Classification code: 5F

#### Marine transport IMDG

UN 1950 AEROSOLS, 2.1

Labelling: AEROSOLS UN 1950

#### ! Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable, 2.1

UN-4G/Y fibreboard boxes required

#### Transport/further information

Posting allowed: Pay attention to quantities

#### Special precautions for user

No information available.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### SECTION 15: Regulatory information

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

#### VOC standard

VOC content 81 %

#### National regulations

#### Other regulations, restrictions and prohibition regulations

Take note of: TRG 300 "Aerosole" (GER)

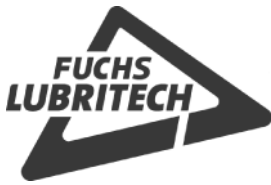
ZH 1/390 "Leaflets: pressurized gas nozzels" (GER)

**Water hazard class** 1 Mixture-WGK according to VwVwS (GER)  
preliminary

**Decree for case of interference/  
remarks** Annex I, No. 11

#### Chemical Safety Assessment

No information available.



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## SECTION 16: Other information

### Training advice

Use information in this MSDS

### Recommended uses and restrictions

usage only according to instructions for use and observance of warning notes  
National and local regulations concerning chemicals shall be observed.

### Further information

The information given in this MSDS is based on the present state of knowledge and is intended to describe our products from the point of view of safety requirements only.

Substantial changes to the former version are marked by "!" on the left margin of the paper.

All the raw materials in this product are listed in TSCA.

Refer to product information paper.

### Sources of key data used

Material Safety Data Sheets of raw materials

### Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 10 Flammable.

R 11 Highly flammable.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.