



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Printed  
revision

23.11.2015  
11.08.2015 (GB) Version 3.1

**gleitmo 980 SPRAY**  
A01-06713

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

### 1.1. Product identifier

**Name of product**

gleitmo 980 SPRAY

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

Aerosol  
Solid film lubricant

### 1.3. 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  
E-mail (competent person):  
reach@fuchs-lubritech.de

### 1.4. Emergency telephone number

**Emergency advice**

+49 (0)171 / 4632154  
Phone 06301/3206-808  
This number is only available at office times.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

F+; R12

**R-phrases**

12 Extremely flammable.

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Aerosol 1	H222, H229	
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### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS02

**Signal word**

Danger

**Hazard Statements**

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

**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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



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## 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 from sources of ignition - No smoking. Keep out of the reach of children.

## 2.3. 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

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

propellant: propane / butane  
PTFE - dispersion in solvent

### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
71-36-3	200-751-6	butan-1-ol	1 < 2,4	R10; Xn R22; Xi R37/38-41; R67
74-98-6	200-827-9	propane	5 - 10	F+ R12
75-28-5	200-857-2	isobutane	5 - 10	F+ R12
106-97-8	203-448-7	butane	50 - 99	F+ R12
64742-48-9	265-150-3	Kohlenwasserstoffe, aliphatisch	1 < 10	Xn; R 10, 65, 66, 67

  

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
71-36-3	200-751-6	butan-1-ol	1 < 2,4	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H336
74-98-6	200-827-9	propane	5 - 10	Flam. Gas 1, H220 / Press. Gas
75-28-5	200-857-2	isobutane	5 - 10	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	50 - 99	Flam. Gas 1, H220 / Press. Gas
64742-48-9	265-150-3	Kohlenwasserstoffe, aliphatisch	1 < 10	Asp. Tox.1, H304 / Flam. Liq. 3, H226 / Aquatic Chronic 3, H412

### REACH

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

### Additional advice

none at appropriate handling and storage

## SECTION 4: First aid measures

### 4.1. 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.

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.

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

#### Physician's information / possible symptoms

Coughing

Headache

Confusion

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**Physician's information / possible dangers**

Aspiration hazard when vomiting after swallow up

**4.3. Indication of any immediate medical attention and special treatment needed**

**Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

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

**5.3. 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**

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

**For non-emergency personnel**

Ensure adequate ventilation.

Keep away sources of ignition.

Avoid contact with skin and eyes

High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

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

active agent: Prevent spread over a wide area (e.g. by containment or oil barriers).

Suppress gases/vapours/mists with water spray jet

Do not discharge into the subsoil/soil.

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

Suck off by room ventilation.

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

**Additional Information**

Informations for disposal see chapter 13.

**6.4. Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**7.1. 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.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

Clean skin thoroughly after working.

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

At work do not eat, drink, smoke or take drugs.

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



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Work in rooms with good ventilation.  
Keep away from food and drink.  
Storing of food in workroom forbidden.

## 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.  
Bursting hazard with fire expansion and injury danger near fire

## 7.2. 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

Store only in closed original container at cool and aired place.  
Protect from heat and direct solar radiation.  
Keep container dry.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.

### Information on storage stability

Storage time: 24 months.

**Storage group** 2B

**Fire class** B

## 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]		Remark
106-97-8	butane	8 hours	2400	1000	4(II)	DFG
71-36-3	butan-1-ol	8 hours	310	100	1(I)	DFG, Y
75-28-5	isobutane	8 hours	2400	1000	4(II)	DFG
74-98-6	propane	8 hours	1800	1000	4(II)	DFG
64742-48-9	aliphatics, cycloparaffin	8 hours	1000			8h, TRGS 900 / 901

#### biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Examination material	Test date
71-36-3	Butanol-1-ol (1-Butanol)	Butanol-1-ol (1-Butanol) (nach Hydrolyse)	2 mg/g Kreatinin	U	d
71-36-3	Butanol-1-ol (1-Butanol)	Butanol-1-ol (1-Butanol) (nach Hydrolyse)	10 mg/g Kreatinin	U	b

### Additional advice

As basis for this information served the valid references.

### 8.2. 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.  
The break through time depends on the mechanical stress imposed and must therefore be checked individually.  
Wear gloves of PVC at prolonged or intensive skin contact  
nitrile gloves

#### Eye protection

safety goggles

#### Other protection measures

Usual working clothes for chemical industries



#### Appropriate engineering controls

Do not inhale aerosols caused by spraying application  
Use only in well-ventilated places

## SECTION 9: Physical and chemical properties

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

#### Appearance

aerosol

#### Colour

colourless

#### Odour

like petrol (gasoline )

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>					not applicable
<b>boiling range</b>	not applicable				Aerosols
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	< 0 °C				Active agent + solved propellant pro rata
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					unknown
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	2900 - 3900 hPa	20 °C			Aerosol can pressure
<b>Relative density</b>	0,6 - 0,61 g/cm3	20 °C			Active agent + solved propellant pro rata
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					more or less insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				

#### Oxidising properties

no

#### Explosive properties

In and after use danger of production of inflammable compounds  
Danger of bursting when heating over 50 °C

### 9.2. Other information

Vapours are heavier than air.  
flammable liquid

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. 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.  
Formation of explosive gas/air mixtures.

### 10.5. Incompatible materials

#### Materials to avoid

Reactions with oxidising agents.

### 10.6. Hazardous decomposition products

none at appropriate handling and storage

### Thermal decomposition

Remark No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. 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

After evaporation of solvent/water - quota a physiological GRAS sliding coat remains

#### Additional information

No toxicological 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

### 12.1. Toxicity

#### Ecotoxicological effects

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

### 12.2. Persistence and degradability

#### Biological

#### degradability

not determined

### 12.3. 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

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment



No information available.

#### 12.6. 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

#### 13.1. Waste treatment methods

##### Recommendations for the product

Disposal according to local authority prescriptions

##### Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Aerosol cans with residual pressure shall be collected and shipped in containers with venting facilities in accordance with GGVSEB.

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

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

#### 14.6. Special precautions for user

No information available.

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

No information available.

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

Hazard label(s) 2.1

tunnel restriction code D

Classification code 5F

Minor quantities are not considered

##### Marine transport IMDG

Labelling: AEROSOLS UN 1950

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

UN-4G/Y fibreboard boxes required

## SECTION 15: Regulatory information

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

##### VOC standard

VOC content ca.98 %

**National regulations****Other regulations, restrictions and prohibition regulations**

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

**Water hazard class**

1 Mixture-WGK according to VwVwS (GER)

**Decree for case of interference/  
remarks**

Annex I, No. 11

**15.2. Chemical Safety Assessment**

Chemical Safety Assessments for mixtures is not required.

**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.

All the raw materials in this product are listed in NECSI (Taiwan)

Refer to product information paper.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 3.0

**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 12 Extremely flammable.

R 22 Harmful if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage 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.

-?-

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H226 Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.