



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

Printed
revision

05.08.2015
07.05.2015 (GB) Version 2.4

gleitmo 900 SPRAY
A01-06704

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

1.1. Product identifier

Name of product gleitmo 900 SPRAY

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

Aerosol
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.

**EMERGENCY
TELEPHONE NO.
800-255-3924**

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
Aerosol 1 Eye Irrit. 2	H222, H229 H319	

2.2. Label elements

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



GHS02



GHS07

Signal word

Danger

Hazard Statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.

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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

Mixture of resin and solid lubricants in a solvent compound

! Hazardous Ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
71-36-3	200-751-6	butan-1-ol	1 < 2,5	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
100-41-4	202-849-4	ethylbenzene	1 - 2,4	F R11; Xn R20
106-97-8	203-448-7	butane	50 - 99	F+ R12
123-86-4	204-658-1	n-butyl acetate	1 < 5	R10; R66; R67
64742-48-9	265-150-3	Mixture of hydrocarbons, de-aromatized	< 5	Xn; R10-52/53-65-66-67
1330-20-7	215-535-7	xylene	5 - 10	R10; Xn R20/21; Xi R38

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 < 2,5	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
100-41-4	202-849-4	ethylbenzene	1 - 2,4	Flam. Liq. 2, H225 / Acute Tox. 4, H332
106-97-8	203-448-7	butane	50 - 99	Flam. Gas 1, H220 / Press. Gas
123-86-4	204-658-1	n-butyl acetate	1 < 5	Flam. Liq. 3, H226 / STOT SE 3, H336
64742-48-9	265-150-3	Mixture of hydrocarbons, de-aromatized	< 5	Flam. Liquid 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / Aquatic Chronic 3, H412
1330-20-7	215-535-7	xylene	5 - 10	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Asp. Tox. 1, H304 / STOT SE3, H335 / STOT RE2, H373

REACH

CAS No	Name	REACH registration number
74-98-6	propane	Exempt
106-97-8	butane	Exempt
1330-20-7	xylene	01-2119488216-32-0000

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.

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.

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

Physician's information / possible symptoms

Unconsciousness
Coughing
Headache
Confusion

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.

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

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.
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.

6.4. Reference to other sections

No information available.



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

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

Keep away from food and drink.

Storing of food in workroom forbidden.

Wash hands and skin before breaks and after work.

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

Prevent penetration into the ground.

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: 3 years.

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/m3]	[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
100-41-4	ethylbenzene	8 hours	88	20	2(II)	DFG, H, Y
75-28-5	isobutane	8 hours	2400	1000	4(II)	DFG
74-98-6	propane	8 hours	1800	1000	4(II)	DFG
1330-20-7	xylene (all isomers)	8 hours	440	100	2(II)	DFG, EU, H
64742-48-9	aliphatics, cycloparaffin	8 hours	1000			8h-Mittel, TRGS 900 / 901
123-86-4	n-butyl acetate	8 hours	480	100	=1=	DFG, 37, Y

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
100-41-4	ethylbenzene	8 hours	442	100	skin
		Short-term	884	200	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	



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! biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Examination material	Test date
100-41-4	ethylbenzene	Mandelsäure + Phenylglyoxylsäure	300 mg/L	U	b
1330-20-7	xylene (all isomers)	Xylol	1,5 mg/l	B	b
1330-20-7	xylene	Methylhippur-(Tolur-) säure (alle Isomere)	2000 mg/l	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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

black

Odour

like petrol (gasoline)

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value					not applicable
boiling range	not applicable				Aerosols
Melting point / Freezing point	not determined				
Flash point	< 0 °C				Active agent + solved propellant pro rata
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					unknown
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	2100 - 3100 hPa	20 °C			Aerosol can pressure
Relative density	0,67 - 0,71 g/cm3	20 °C			Active agent + solved propellant pro rata



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	Value	Temperature	at	Method	Remark
Vapour density	not determined				
Solubility in water					more or less insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	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
LD50 acute oral				not determined
Irritability skin				frequent and/or persistent contact may cause skin irritation
Irritability eye	may have irritating effect			if splash reaches eye
Skin sensitization	No sensitizing effect known			



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A01-06704

Experiences made from practice

Frequent persistent contact with the skin may cause skin irritation.
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
Fish			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 data are not available.
Do not allow uncontrolled leakage of product into the 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

Marine transport IMDG

Labelling: AEROSOLS UN 1950

Air transport ICAO/IATA-DGR

UN-4G/Y fibreboard boxes required

Transport/further information

Posting allowed: Pay attention to quantities

SECTION 15: Regulatory information

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

VOC standard

VOC content ca.85 %

National regulations

Other regulations, restrictions and prohibition regulations

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

Water hazard class

2 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 "I" 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: "I" = Data changed compared with the previous version. Previous version: 2.3

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 20 Harmful by inhalation.

R 20/21 Harmful by inhalation and in contact with skin.

R 22 Harmful if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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07.05.2015 (GB) Version 2.4

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A01-06704

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.
H225 Highly flammable liquid and vapour.
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.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H412 Harmful to aquatic life with long lasting effects.