



ES WIRKT.

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

PTFE Trockenschmierung Spray

Print date 16.01.2023
Revision date 16.01.2023
Version 8.0 (en)
replaces version of 01.12.2022 (7.6)

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

*** 1.1 Product identifier**

Trade name/designation PTFE Trockenschmierung Spray

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

Use of the substance/mixture

Lubricant (dry lubrication)

*** Remark**

UFI: 8CDQ-7E13-X001-34Y0

1.3 Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

*** 1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

*** SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Aerosol 1, H222 H229

Eye Irrit. 2, H319

Hazard statements for physical hazards

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

H319 Causes serious eye irritation.

*** 2.2 Label elements**

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



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Hazard pictograms



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.
P251 Do not pierce or burn, even after use.
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.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to recycling

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	propane	35 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	butane	15 weight-%	Flam. Gas 1; H220 Press. Gas	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
Remove affected person from the danger area and lay down.

Following inhalation

Provide fresh air.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.



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After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Call a physician immediately.

Following ingestion

Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Unconsciousness
Inebriation
Vomiting
Nausea
Dizziness
Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.
Wear full chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
Heating causes rise in pressure with risk of bursting

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Remove all sources of ignition.



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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Sawdust

Take up mechanically and send for disposal.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

No special measures are necessary.

Keep away from sources of ignition - No smoking.

Do not inhale aerosols

Avoid:

Eye contact

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Storage class

2B Aerosol dispensers and lighters

Materials to avoid

Do not store together with:

Food and feedingstuffs

Further information on storage conditions

Protect of heat.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)



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8.2 Exposure controls

Personal protection equipment

Eye/face protection

tightly fitting goggles

Hand protection

Gloves (solvent-resistant)

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:
insufficient ventilation

Suitable respiratory protection apparatus:

Short term: filter apparatus, Filter A/P2

Environmental exposure controls

Technical measures to prevent exposure

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

colourless
clear

Odour

like:
Alcohol

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	approx. 78 °C pressure 1013 mbar		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 10.9 Vol-%		(Propan)
Lower and upper explosion limit	Lower explosion limit 1.5 Vol-%		(Propan)
Flash point	approx. -104 °C		(Propan)
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		



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	Value	Method	Source, Remark
pH	in delivery state approx. 7.5 (20°C)		neutral
Viscosity	not determined		
Solubility(ies)	Water solubility		multimiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	approx. 60 hPa (20°C)		
Density and/or relative density	approx. 0.82 g/cm ³ (20°C) pressure 1013 mbar		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.
Evolution of highly flammable gases/vapours.

10.5 Incompatible materials

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 5000 mg/kg Species Rat		Data apply to the main component.
Acute dermal toxicity	> 2000 mg/kg Species Rat		Data apply to the main component.



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	Effective dose	Method,Evaluation	Source, Remark
Acute inhalation toxicity	> 20000 mg/L Species Rat Exposure time 4 h		Details refer to the main component
Skin corrosion/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
non-irritant.			
Serious eye damage/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
Irritant.			
Sensitisation to the respiratory tract			
not determined			
Skin sensitisation			
Animal data			
Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			experiences
Germ cell mutagenicity			
not determined			
Carcinogenicity			
not determined			
Reproductive toxicity			
not determined			
STOT-single exposure			
not determined			
STOT-repeated exposure			
not determined			
Aspiration hazard			
not determined			
11.2 Information on other hazards			
No data available			

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: > 8100 mg/L Species Leuciscus idus (golden orfe) Test duration 48 h		
Chronic (long-term) fish toxicity	not determined		



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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) toxicity to crustacea	EC50 > 9000 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC10 > 6500 mg/L Species Pseudomonas putida Test duration 16 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.
The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
140603 *	other solvents and solvent mixtures

Appropriate disposal / Package

Completely emptied packages can be recycled.
Recycle sales packaging via DSD (Duales System Deutschland).



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Remark

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 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 data available		
14.7 Maritime transport in bulk according to IMO instruments	No data available		

Land transport (ADR/RID)

UN number or ID number UN 1950
UN proper shipping name AEROSOLS
Transport hazard class(es) 2.1
Hazard label(s) 2.1
Classification code 5F
Packing group -
Environmental hazards No
Limited quantity (LQ) 1 L
Special provisions 190, 327, 344, 625
Tunnel restriction code D

Sea transport (IMDG)

UN number or ID number UN 1950
UN proper shipping name AEROSOLS
Transport hazard class(es) 2.1
Packing group -
Environmental hazards No
Limited quantity (LQ) 1 L
Marine pollutant No
EmS F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1950
UN proper shipping name Aerosols, flammable



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Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H220 Extremely flammable gas.

Indication of changes

* Data changed compared with the previous version



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

*** 1.1 Product identifier**

Trade name/designation Kupfer Grafit-Spray
Art-Nr 25200

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

Use of the substance/mixture
corrosion prevention

Remark
UFI: ME0P-4EWM-S00K-CFKR

1.3 Details of the supplier of the safety data sheet

Manufacturer
F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:
Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

*** 1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

*** SECTION 2: Hazards identification**

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

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

Aerosol 1, H222 H229
Aquatic Chronic 3, H412

Hazard statements for physical hazards
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Hazard statements for environmental hazards
H412 Harmful to aquatic life with long lasting effects.

*** 2.2 Label elements**

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



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Hazard pictograms



GHS02

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P251 Do not pierce or burn, even after use.
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.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to recycling

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	propane	45 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	butane	20 weight-%	Flam. Gas 1; H220 Press. Gas	
		Kupferpulver	< 2.5 weight-%	Acute Tox. 4; H302 Acute Tox. 3; H331 Eye Irrit. 2; H319 Aquatic Chronic 1; H410	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.



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Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Do NOT induce vomiting.
Medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder
Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide

5.3 Advice for firefighters

No data available

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No data available

6.2 Environmental precautions

Do not allow to enter into surface water or drains.



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6.3 Methods and material for containment and cleaning up

For containment

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Use only in well-ventilated areas.

Keep away from sources of ignition - No smoking.

Avoid:

Eye contact

Skin contact

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Keep container tightly closed.

Storage class

2B Aerosol dispensers and lighters

Materials to avoid

Do not store together with:

Oxidising agent

Further information on storage conditions

Keep in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)



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8.2 Exposure controls

Personal protection equipment

Eye/face protection

safety goggles

Hand protection

Gloves (oil-resistant)

Respiratory protection

Respiratory protection necessary at:
high concentrations

Environmental exposure controls

Technical measures to prevent exposure

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

silver

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	-42 °C		(Propan)
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 10.9 Vol-%		
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		
Flash point	approx. -104 °C		(Propan)
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.95 g/cm ³		
Relative vapour density	not determined		



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	Value	Method	Source, Remark
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	2000 mg/kg Species Rat		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
slightly irritant		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
slightly irritant		

Sensitisation to the respiratory tract

not determined



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Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Aspiration hazard

not determined

11.2 Information on other hazards

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

Value	Method	Source, Remark
Biodegradation		Moderately/partially biodegradable.

12.3 Bioaccumulative potential

No data available



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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product Waste name

130208 * other engine, gear and lubricating oils

Appropriate disposal / Package

Non-contaminated packages may be recycled.

Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 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 data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number UN 1950
UN proper shipping name AEROSOLS
Transport hazard class(es) 2.1
Hazard label(s) 2.1
Classification code 5F
Packing group -



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Kupfer Grafit-Spray

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replaces version of 29.04.2021 (6.7)

Environmental hazards	No
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

SECTION 15: Regulatory information

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

Other regulations (EU)

To follow:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2 Chemical Safety Assessment

National regulations

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Indication of changes

* Data changed compared with the previous version



ES WIRKT.

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

Silikon-Öl-Spray

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Revision date 29.11.2022
Version 7.9 (en)
replaces version of 19.08.2022 (7.8)

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

1.1 Product identifier

Trade name/designation Silikon-Öl-Spray

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

Use of the substance/mixture

Lubricant

Remark

UFI: 8KJP-CEY1-100J-NR4N

1.3 Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

*** SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
--	--------------------------

Aerosol 1, H222 H229

Skin Irrit. 2, H315

STOT SE 3, H336

Aquatic Chronic 2, H411

Hazard statements for physical hazards

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.



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Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

* 2.2 Label elements

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

Hazard pictograms



GHS02



GHS07



GHS09

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

* Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P302 + P352 IF ON SKIN: Wash with plenty of water/....
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container to recycling

Other labelling

Food Pure silicone oil in solvent

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
107-83-5	203-523-4	hexane (containing < 5-% n-hexane (203-777-6))	> 25 weight-%	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	
74-98-6	200-827-9	propane	< 15 weight-%	Flam. Gas 1; H220 Press. Gas	



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
106-97-8	203-448-7	butane	< 15 weight-%	Flam. Gas 1; H220 Press. Gas	

Remark

Aerosol: Propellant propane/butane gas

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.

In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Do NOT induce vomiting.

If troubles appear bring to a medical treatment

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Carbon dioxide (CO₂)

Water spray jet

Unsuitable extinguishing media

Full water jet



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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide
Vapours may form explosive mixtures with air

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
Heating causes rise in pressure with risk of bursting

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Remove all sources of ignition.
Do not breath vapour or spray.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Protect aerosols from temperatures exceeding 50°C/ 122°F

Do not open with force or incinerate, even when empty

Avoid:

Eye contact

Skin contact

Do not inhale aerosols

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

Use protective skin cream before handling the product.



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7.2 Conditions for safe storage, including any incompatibilities

Storage class

2B Aerosol dispensers and lighters

Further information on storage conditions

Protect from extreme heat and cold.
Keep cool.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
107-83-5	203-523-4	Hexane, all isomers except n-hexane	500 [ml/m ³ (ppm)] 1800 [mg/m ³] Short-term(ml/m ³) 1000 Short-term(mg/m ³) 3600 (IE)
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
107-83-5	203-523-4	Hexane, all isomers except n-hexane	500 [ml/m ³ (ppm)] 1800 [mg/m ³] (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

8.2 Exposure controls

Personal protection equipment

Eye/face protection

With demand: protective glasses

Hand protection

Gloves (solvent-resistant)

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:
aerosol or mist formation

The following applies to propane in general: If the concentration is exceeded, closed-circuit breathing apparatuses must be used

Use filter apparatus type AX, identification colour brown according to EN 371

Environmental exposure controls

Technical measures to prevent exposure



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

colourless
clear

Odour

like:
Solvents/Thinner

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	melting temperature < -154 °C	DIN ISO 3016	Details refer to the active agent (without consideration of the propellant)
Boiling point or initial boiling point and boiling range	approx. 60 °C		Details refer to the active agent (without consideration of the propellant)
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 7.4 Vol-%		information concern solvent
Lower and upper explosion limit	Lower explosion limit approx. 1 Vol-%		information concern solvent
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.74 g/cm ³ (20°C)		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available



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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Formation of explosive gas/air mixtures.

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.

10.5 Incompatible materials

Oxidising agent, strong

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Additional information

Product is stable under normal storage conditions

*** SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	5000 mg/kg Species Rat	OECD 401	Data apply to the main component.
Acute dermal toxicity	3000 mg/kg Species Rat	OECD 402	
Acute inhalation toxicity	172 mg/L Species Rat Exposure time 4 h	OECD	Details refer to the main component

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant. Species Rabbit		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
strongly irritant. Species Rabbit		



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Sensitisation to the respiratory tract

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.	Species Guinea pig		

*** Germ cell mutagenicity**

Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity			

*** Carcinogenicity**

Animal data

Value	Method	Result / Evaluation	Remark
Carcinogenicity			

Reproductive toxicity

Animal data

Value	Method	Result / Evaluation	Remark
Reproductive toxicity		Vzhledem k dostupné údaje, kritéria klasifikace nejsou splněna	

*** STOT-single exposure**

Overall Assessment on CMR properties

*** STOT SE 1 and 2**

*** Animal data**

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (single exposure)	Species Rat				
Dermal specific target organ toxicity (single exposure)	Species Rat				
Inhalative specific target organ toxicity (single exposure)	Species Rat				

*** STOT-repeated exposure**

STOT SE 3

Narcotic effects

*** Animal data**

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	Species Rat				



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	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	Species Rat				
Dermal specific target organ toxicity (repeated exposure)	Species Rat				
Dermal specific target organ toxicity (repeated exposure)	Species Rat				
Inhalative specific target organ toxicity (repeated exposure)	Species Rat				
Inhalative specific target organ toxicity (repeated exposure)	Species Rat				

*** Aspiration hazard**

not determined

11.2 Information on other hazards

No data available

Other information

Has a degreasing effect on the skin.

There is no risk for a normal operation application

Frequent persistent contact with the skin may cause skin irritation.

The product has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		



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12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			The main components are probably slightly degradable, but some components are persistent in the environment estimated

12.3 Bioaccumulative potential

Assessment/classification

Floats on water, is in liquid form, is adsorbed on Erdbodenpartikel partially and passes into the vapor phase. No groundwater contamination.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
140603 *	other solvents and solvent mixtures

Appropriate disposal / Product

Dispose as specified by the public authorities.

Appropriate disposal / Package

Completely emptied packages can be recycled.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 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



ES WIRKT.

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Print date 14.12.2022
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Version 7.9 (en)
replaces version of 19.08.2022 (7.8)

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

SECTION 15: Regulatory information

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

Other regulations (EU)

To follow:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
Aerosol directive (75/324/EEC)



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replaces version of 19.08.2022 (7.8)

15.2 Chemical Safety Assessment

National regulations

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
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.

Indication of changes

* Data changed compared with the previous version



ES WIRKT.

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

Premium Rostschutz-Öl Spray

Print date 17.03.2023
Revision date 17.03.2023
Version 6.0 (en)
replaces version of 17.11.2021 (5.1)

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

*** 1.1 Product identifier**

Trade name/designation Premium Rostschutz-Öl Spray
Unique Formula Identifier UFI: T8SR-9E4M-200F-UUA8

Hazard components

Kerosin (Erdöl), hydrodesulfuriertes ; Kerosin - nicht spezifiziert (Kopie)

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

Use of the substance/mixture

corrosion prevention
Preservation of metal, wood, leather, rubber, synthetic material

1.3 Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

*** 1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1, H222 H229
Aquatic Chronic 3, H412

Hazard statements for physical hazards

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

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard components

Kerosin (Erdöl), hydrodesulfuriertes ; Kerosin - nicht spezifiziert (Kopie)



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Hazard pictograms



GHS02

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P251 Do not pierce or burn, even after use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to recycling

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
		Kerosin (Erdöl), hydrodesulfuriertes ; Kerosin - nicht spezifiziert (Kopie)	25 weight-%	Asp. Tox. 1; H304	
106-97-8	203-448-7	butane	> 15 weight-%	Flam. Gas 1; H220 Press. Gas	
74-98-6	200-827-9	propane	9 weight-%	Flam. Gas 1; H220 Press. Gas	

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.



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After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

If swallowed, immediately drink:
Water
Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
ABC-powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
Heating causes rise in pressure with risk of bursting
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Special danger of slipping by leaking/spilling product.



ES WIRKT.

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

Premium Rostschutz-Öl Spray

Print date 17.03.2023
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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Take up residues with absorbent material (e.g. sawdust).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Protect aerosols from temperatures exceeding 50°C/ 122°F

Do not inhale gases/vapours/aerosols.

Advices on general occupational hygiene

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

2B Aerosol dispensers and lighters

Further information on storage conditions

Recommended storage temperature: room temperature.

Storage time: 3 years.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)



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CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

8.2 Exposure controls

Personal protection equipment

Eye/face protection

With demand: protective glasses

Hand protection

Gloves (oil-resistant)

Recommendation: protective glove (referred to EN374).

Respiratory protection

Respiratory protection must be worn whenever the WEL levels have been exceeded

The following applies to propane in general: If the concentration is exceeded, closed-circuit breathing apparatuses must be used

Use filter apparatus type AX, identification colour brown according to EN 371

* SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

light yellow

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	-48 °C		(Propan)
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 10.9 Vol-%		(Propan)
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		(Propan)
Flash point	approx. -104 °C		(Propan)
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	in delivery state approx. 8		emulsion in water
Viscosity	Kinematic viscosity approx. 28 mm ² /s (20°C)		information concerns to liquid phase



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	Value	Method	Source, Remark
Solubility(ies)	Water solubility (20°C) pressure 1013 hPa		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.874 g/mL (20°C) pressure 1013 hPa		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		

* **9.2 Other information**

* **Other safety characteristics**

	Value	Method	Source, Remark
refraction index	approx. 1.48 (20°C)		

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.

10.5 Incompatible materials

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

Additional information

Product is stable under normal storage conditions

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 2000 mg/kg Species Rat		Data apply to the main component.



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	Effective dose	Method,Evaluation	Source, Remark
Acute dermal toxicity	> 3000 mg/kg Species Rabbit		
Acute inhalation toxicity	not determined		
Skin corrosion/irritation			
not determined			
Serious eye damage/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
slightly irritant			
Sensitisation to the respiratory tract			
not determined			
Skin sensitisation			
Animal data			
Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			
Germ cell mutagenicity			
not determined			
Carcinogenicity			
not determined			
Reproductive toxicity			
not determined			
STOT-single exposure			
not determined			
STOT-repeated exposure			
not determined			
Aspiration hazard			
not determined			
11.2 Information on other hazards			
No data available			

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			Moderately/partially biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
130205 *	mineral-based non-chlorinated engine, gear and lubricating oils

Appropriate disposal / Package

Non-contaminated packages may be recycled.
Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 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



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14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.



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SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H304	May be fatal if swallowed and enters airways.

Indication of changes

* Data changed compared with the previous version



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

1.1 Product identifier

Trade name/designation Multi-Werkstatt-Öl Spray

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

Use of the substance/mixture

corrosion prevention
Lubricant

Remark

UFI: TYYT-6EA6-300C-1XGV

1.3 Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

Department responsible for information:
Qualitätssicherung
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):
info@ballistol.de

*** 1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

*** SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
--	--------------------------

Aerosol 1, H222 H229

Hazard statements for physical hazards

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

*** 2.2 Label elements**

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

Hazard pictograms



GHS02



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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.
P251 Do not pierce or burn, even after use.
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.
P412 Do not expose to temperatures exceeding 50 °C/122 °F.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container to recycling

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
		Kerosin (Erdöl), hydrodesulfuriertes ; Kerosin - nicht spezifiziert (Kopie)	< 30 weight-%	Asp. Tox. 1; H304	
106-97-8	203-448-7	butane	≥ 10 ≤ 15 weight-%	Flam. Gas 1; H220 Press. Gas	
74-98-6	200-827-9	propane	≥ 5 ≤ 10 weight-%	Flam. Gas 1; H220 Press. Gas	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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Following ingestion

Do NOT induce vomiting.
Medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

Full water jet

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

*** Hazardous combustion products**

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide

5.3 Advice for firefighters

No data available

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No data available

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

6.4 Reference to other sections

No data available



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Use only in well-ventilated areas.
Keep away from sources of ignition - No smoking.
Container under pressure
Protect aerosols from temperatures exceeding 50°C/ 122°F
Avoid:
Eye contact
Skin contact

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.
Storing of food in workroom forbidden.
Wash hands before breaks and after work.
Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

2B Aerosol dispensers and lighters

Materials to avoid

Do not store together with:
Oxidising agent

Further information on storage conditions

Keep in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

8.2 Exposure controls

Personal protection equipment

Eye/face protection

tightly fitting goggles



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Hand protection

Gloves (oil-resistant)

Respiratory protection

Respiratory protection necessary at:
high concentrations

Environmental exposure controls

Technical measures to prevent exposure

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

brownish

Odour

like Petroleum

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	-42 °C		(Propan)
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 10.9 Vol-%		(Propan)
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		(Propan)
Flash point	approx. -104 °C		(Propan)
Auto-ignition temperature	> 200 °C		Die Daten beziehen sich auf das Lösemittel.
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic 21 mm ² /s (20°C)		information concerns to liquid phase
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.86 g/cm ³ (20°C) pressure 1013 mbar		information concerns to liquid phase
Relative vapour density	not determined		



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	Value	Method	Source, Remark
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

Additional information

Product is stable under normal storage conditions

*** SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

*** Acute toxicity**

*** Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	2000 mg/kg Species Rat		
Acute dermal toxicity			
Acute inhalation toxicity			

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
slightly irritant		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
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* **Sensitisation to the respiratory tract**

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
---------------------	----------------------	--------	----------------

not sensitising.

Germ cell mutagenicity

Value	Method	Result / Evaluation	Remark
-------	--------	---------------------	--------

In vitro
mutagenicity/genot
otoxicity

Carcinogenicity

Animal data

Value	Method	Result / Evaluation	Remark
-------	--------	---------------------	--------

Carcinogenicity

Reproductive toxicity

Animal data

Value	Method	Result / Evaluation	Remark
-------	--------	---------------------	--------

Reproductive
toxicity

STOT-single exposure

Overall Assessment on CMR properties

STOT SE 1 and 2

Animal data

Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
----------------	--------	-------------------	------------------	----------------

Oral specific target
organ toxicity
(single exposure)

Dermal specific
target organ
toxicity (single
exposure)

Inhalative specific
target organ
toxicity (single
exposure)

Other information

Vzhľadom na
dostupné údaje, klasifikačné kritériá nie sú splnené

STOT-repeated exposure

STOT SE 3

Narcotic effects

Animal data

Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
----------------	--------	-------------------	------------------	----------------

Oral specific target
organ toxicity
(repeated
exposure)



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Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)				
Dermal specific target organ toxicity (repeated exposure)				
Dermal specific target organ toxicity (repeated exposure)				
Inhalative specific target organ toxicity (repeated exposure)				
Inhalative specific target organ toxicity (repeated exposure)				

Other information

Vzhľadom na dostupné údaje, klasifikačné kritériá nie sú splnené

Aspiration hazard

Remark

Vzhľadom na dostupné údaje, klasifikačné kritériá nie sú splnené

11.2 Information on other hazards

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		



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12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			The main components are probably slightly degradable, but some components are persistent in the environment

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.
The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
130208 *	other engine, gear and lubricating oils

Appropriate disposal / Package

Non-contaminated packages may be recycled.
Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 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	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

No data available



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14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Other regulations (EU)

To follow:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2 Chemical Safety Assessment

National regulations

For this substance a chemical safety assessment has not been carried out.



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SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.

Indication of changes

* Data changed compared with the previous version