



ES WIRKT.

Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
revision 20.08.2020 (GB) Version 5.9
Stichfrei Spray

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

1.1. Product identifier

Name of product Stichfrei Spray

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

! Recommended intended purpose(s)

Mosquito repellent added with skin care and sun protection

1.3. Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20, D-84168 Aham
Phone +49 (0) 8744 96 99 10, Fax + 49 (0) 8744 96 99 96
E-Mail info@ballistol.de
Internet www.ballistol.de

Advice

Qualitätssicherung
Phone +49 (0) 8744 96 99 30
E-mail (competent person):
info@ballistol.de

1.4. Emergency telephone number

Emergency advice

Dr.Zettler (Werktags von 8.00 Uhr bis 16.00 Uhr) oder
Giftnotrufzentrale 022819240
Phone +49 (0) 8744 96 99 30

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	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.

! Additional hints

This is a biocidal product (Reg: N-33738)
Repellent: sec-Butyl-2(2-hydroxyethyl)piperidin-1-carboxylat 20g/100g

2.2. Label elements



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



GHS02

Signal word

Danger

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.

Precautionary Statements

General

P102 Keep out of reach of children.

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P251 Do not pierce or burn, even after use.
P273 Avoid release to the environment.

Response

P370 + P378 In case of fire: Use water for extinction.

Storage

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

Disposal

P501 Dispose of contents/container to
P501 Dispose of contents/container to recycling

2.3. Other hazards

No information available.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
74-98-6	200-827-9	propane	< 10	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	< 20	Flam. Gas 1, H220 / Press. Gas
		Parfüm	< 2	Aquatic Chronic 3



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take away from danger area and lay down affected person.

In case of inhalation

Ensure fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

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

Turn a vomiting person lying on his back onto his side.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

Physician's information / possible symptoms

The following symptoms may occur:

In case of inhalation of plenty of solvent-containing fumes the following symptoms may occur:

Coughing

Headache

Confusion

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

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet.

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.



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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 people away and stay on the upwind side.
Use personal protective clothing.
Keep away sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up mechanically and send for disposal.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly.

General protective measures

Do not inhale aerosols
Avoid contact with the eyes.

Hygiene measures

At work do not eat, drink, smoke or take drugs.
Storing of food in workroom forbidden.
Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Protect aerosols from temperatures exceeding 50°C/ 122°F

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Protect of heat.

Storage group 2B

7.3. Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

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

Hand protection

Stichfrei Dermatologist with was "very good" so that no hands protection needed.

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Limitation and surveillance of the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colourless, clear

Odour

fruity

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 7,5	20 °C			neutral
boiling point	78,2 °C		1013 hPa		
Melting point / Freezing point	not determined				
Flash point	ca. 12 °C			DIN 51755	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	3,5 Vol-%				



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	Value	Temperature	at	Method	Remark
Upper explosion limit	15 Vol-%				
Vapour pressure	ca. 60 hPa	20 °C			
Relative density	ca. 0,916 g/ cm ³	20 °C	1013 hPa	pycnometer	
Vapour density	not determined				
Solubility in water					insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity kinematic	ca. 10 mm ² /s	20 °C			information concerns to liquid phase

Oxidising properties

No information available.

Explosive properties

No information available.

9.2. Other information

No information available.

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

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

10.5. Incompatible materials

Substances to avoid

Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.



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! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 10000 mg/kg	rat		
LC50 acute inhalation	> 1800 mg/l (4 h)	Rat (female)	OECD 403	
Skin irritation	non-irritant			
Eye irritation	low irritant			
Skin sensitization	non-sensitizing			experiences

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 > 100 mg/l (24 h)	Oncorhynchus mykiss	EPA	Based on the actual test result or equivalent product
Daphnia	EC50 > 100 mg/l (48 h)	Daphnia magna	OECD	
Algae	EC50 > 100 g/m3 (72 h)	Scenedesmus quadricauda		

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				readily degradable

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General regulation

Do not allow uncontrolled leakage 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.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

13 08 99*

Name of waste

wastes not otherwise specified

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Incinerate in suitable incineration plant, but care for official regulations.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Barrel: return by DSD (Dualistic System Germany)

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	Druckgaspackung	Aerosols	Aerosols, flammable
14.3. Transport hazard class(es)	2	2	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

tunnel restriction code D

Classification code 5F

SECTION 15: Regulatory information

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

National regulations

Water hazard class

1 self-classification

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment is not required.



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SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 5.8

H220 Extremely flammable gas.