



ES WIRKT.

Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
revision 27.05.2021 (GB) Version 5.5
Starthilfe-Spray

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

1.1. Product identifier

Name of product Starthilfe-Spray

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

Identified uses

! Remark

UFI: VE45-816M-100Q-8366

Recommended intended purpose(s)

Helps reliably with cold and humid Engines.

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 STOT SE 3	H222, H229 H336	

Hazard statements for physical hazards

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

Hazard statements for health hazards

H336 May cause drowsiness or dizziness.

2.2. Label elements



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



GHS02



GHS07

Signal word

Danger

Hazard statements for physical hazards

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

Hazard statements for health hazards

H336 May cause drowsiness or dizziness.

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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.

Storage

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

! Disposal

P502 Refer to manufacturer/supplier for information on recovery/recycling.

Hazardous ingredients for labeling

Diethylether (60-29-7)

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	[%-Vol]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
60-29-7	200-467-2	diethylether	> 35	Flam. Liq. 1, H224 / Acute Tox. 4, H302 / STOT SE 3, H336
74-98-6	200-827-9	propane	ca. 15	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	ca. 33	Flam. Gas 1, H220 / Press. Gas

Additional advice

Aerosol: Propellant propane/butane gas



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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of inhalation

Remove the casualty into fresh air and keep him immobile.
Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

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

Refer to medical treatment.

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

Physician's information / possible symptoms

Anaesthetic state

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
ABC powder
Carbon dioxide
sand

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air

5.3. Advice for firefighters

! Additional information

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

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.
Do not breath vapour or spray.



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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean contaminated objects and floor thoroughly under consideration of environment regulations.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.
Follow the instructions!

General protective measures

Avoid contact with eyes and skin
Do not inhale aerosols

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store with combustible materials.

Further information on storage conditions

Protect from extreme heat and cold.
Storage temperature may not exceed 50°C (=122°F).

Storage group 2B

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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
60-29-7	diethylether	8 hours	308	100	
		Short-term	616	200	

Additional advice

When spraying the entire contents of a 200ml spray can in one room of 20m², none of the limit values are reached, so that a limit measurement is not required.

8.2. Exposure controls

Limitation and surveillance of the environment



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colourless, clear

Odour

solvent-like

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	ab -104 °C				(Propan)
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	170 °C				information concern solvent
Self ignition temperature	not determined				
Lower explosion limit	ca. 1,5 Vol-%				(Propan)
Upper explosion limit	ca. 10,9 Vol-%				(Propan)
Vapour pressure	587 hPa	20 °C			the data refer to the solvent
Relative density	0,71 g/cm ³	20 °C			information concerns to liquid phase
Vapour density	not determined				
Solubility in water	12 g/l	20 °C	1013 hPa		
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				



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	Value	Temperature	at	Method	Remark
Viscosity	not determined				

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
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
Substances to avoid
Reactions with strong oxidising agents.

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 toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	1215 mg/kg	rat		Information concerns to main component.
LC50 acute inhalation	73000 mg/l (4 h)	rat		Details refer to the main component
Skin irritation	non-irritant			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	non-sensitizing			



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Toxicity test (Additional information)

When properly used the product according to our experience and the information available to us caused no harmful effects.

Experiences made from practice

Has a degreasing effect on the skin.
Frequent persistent contact with the skin may cause skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

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

The product floats on the water, is in liquid form, is not adsorbed on soil particles, and passes into the vapor phase. No groundwater contamination.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

14 06 03*

Name of waste

other solvents and solvent mixtures

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

Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950



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	ADR/RID	IMDG	IATA-DGR
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

Other regulations (EU)

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Aerosol directive (75/324/EEC).

National regulations

! Restriction of occupation

Respectati-va limitariile în munca de tineret.

Water hazard class 1 value from literature

Decree for case of interference/remarks Nr.: 7 b

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Recommended uses and restrictions

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.

Further information

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 5.4

H220 Extremely flammable gas.



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H224 Extremely flammable liquid and vapour.
H302 Harmful if swallowed.
H336 May cause drowsiness or dizziness.