



ES WIRKT.

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

Gunex MIL

Print date 23.03.2026
Revision date 03.03.2026
Version 2.0 (en)
replaces version of 30.10.2025 (1.0)

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

*** 1.1 Product identifier**

Trade name/designation Gunex MIL
Art-Nr 15411
Unique Formula Identifier UFI: 44TR-CE1K-400E-F84W

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

Use of the substance/mixture

Weapon care
corrosion prevention

1.3 Details of the supplier of the safety data sheet

Supplier

Ballistol GmbH
Hauptstraße 20
DE-84168 Aham
Telephone 0874496990
Telefax 0874496996
E-mail info@ballistol.de
Website www.ballistol.de

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

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
Aerosol 1, H229
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 3, H412

Hazard statements for physical hazards

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



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Hazard statements for health hazards

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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 pictograms



GHS02



GHS07

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

* **Precautionary statements**

P103 Read carefully and follow all instructions.
P210 From heat, hot surfaces, sparks, flames and other sources of ignition. Do not smoke.
P251 Do not pierce or burn, even after use.
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.
P101 If medical advice is needed, have product container or label at hand.
P273 Avoid release to the environment.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.
P102 Keep out of reach of children.
P280 Wear protective gloves and eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
57855-77-3	939-717-7		Calcium-bis(dinonylnaphthalinsulfonat)	> 10 < 20 weight-%	Skin Irrit. 2; H315 Eye Irrit. 2; H319	
/	/		Anhydride	> 10 < 20 weight-%	Skin Sens. 1B; H317	



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CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
106-97-8	203-448-7	601-004-01-8	butane (containing $\geq 0,1\%$ butadiene (203-450-8))	15 weight-%	Flam. Gas 1; H220 Press. Gas Carc. 1A; H350 Muta. 1B; H340	
74-98-6	200-827-9	601-003-00-5	propane	5 weight-%	Flam. Gas 1; H220 Press. Gas	
106-99-0	203-450-8	601-013-00-X	buta-1,3-diene	< 0.1 weight-%	Flam. Gas 1; H220 Press. Gas Carc. 1A; H350 Muta. 1B; H340	
REACH No.		Substance name				
01-2119980985-16-0000		Calcium-bis(dinonylnaphtalinsulfonat)				
nicht zugewiesen		Anhydride				
01-2119486944-21		propane				

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 reactions, 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.
Rinse mouth thoroughly with water.
Ärztliche Behandlung notwendig

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)
Wassersprühstrahi



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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:

Carbon dioxide (CO₂)

Carbon monoxide

Nitrogen oxides (NO_x)

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

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

Use water spray jet to protect personnel and to cool endangered containers.

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.

Special danger of slipping by leaking/spilling product.

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

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid:

generation/formation of aerosols

Use only in well-ventilated areas.

Keep away from sources of ignition - No smoking.

Eye contact

Skin contact



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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 container tightly closed.

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
106-99-0	203-450-8	1,3-Butadien	1 [ml/m ³ (ppm)] 2,2 [mg/m ³] (IE)
106-99-0	203-450-8	1,3-Butadien	1 [ml/m ³ (ppm)] 2,2 [mg/m ³] (UK)
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

*** Hand protection**

The figures are based on data from the literature and manufacturer's information. The actual breakthrough time may vary depending on the manufacturer.

Nitrile gloves ≥ 0.4 mm, breakthrough time ≥ 480 minutes in accordance with EN ISO 374

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:
aerosol or mist formation



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

dark brown

Odour

characteristic

like:

Mineral oil

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	drop point approx. -37.5 °C		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	> 180 °C		
Auto-ignition temperature	not determined		
Decomposition temperature	approx. 188 °C		
pH	not determined		
Viscosity	Kinematic viscosity approx. 53.5 mm ² /s (20°C)		
Solubility(ies)	Water solubility		nicht mit Wasser mischbar
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	Density approx. 0.84 g/cm ³ (20°C)		
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



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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

No data available

10.6 Hazardous decomposition products

Carbon dioxide
Carbon monoxide

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			Kein relevanter Bestandteil
Acute dermal toxicity			Kein relevanter Bestandteil
Acute inhalation toxicity	Acute inhalation toxicity (gas)		Das Gemisch wird in Akute Toxizität inhalativ nicht eingestuft

Skin corrosion/irritation

Assessment/classification

Verursacht reversible Hautschäden (Kat. 2)

Serious eye damage/irritation

Assessment/classification

Verursacht schwere Augenschädigungen/-reizungen (Kat. 2)

Sensitisation to the respiratory tract

Assessment/classification

kein relevanter Bestandteil

Skin sensitisation

Assessment/classification

Sensibilisierung der Haut (Kat. 1)



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Germ cell mutagenicity

Assessment/classification

Kein relevanter Bestandteil

Carcinogenicity

Assessment/classification

Kein relevanter Bestandteil

Reproductive toxicity

Assessment/classification

Kein relevanter Bestandteil

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

Kein relevanter Bestandteil

STOT SE 3

Irritation to respiratory tract

Assessment/classification

Kein relevanter Bestandteil

Narcotic effects

Assessment/classification

Kein relevanter Bestandteil

STOT-repeated exposure

Assessment/classification

Kein relevanter Bestandteil

Aspiration hazard

Assessment/classification

Das Gemisch besitzt Inhaltsstoffe mit Aspirationsgefahr. Die kinematische Viskosität bei 40°C ist größer als 20,5 mm²/s. Das Gemisch wird in Aspirationsgefahr nicht eingestuft.

11.2 Information on other hazards

Other information

It does not contain any endocrine-active substances with harmful effects.

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			Kategorie 3 Gewässergefährdend
Acute (short-term) toxicity to crustacea	not determined		



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Table with 4 columns: Effective dose, Method, Evaluation, Source, Remark. Rows include toxicity data for aquatic invertebrates, algae, and microorganisms.

Assessment/classification

Schädlich für Wasserorganismen, mit langfristiger Wirkung

12.2 Persistence and degradability

Assessment/classification

kein relevanter Bestandteil

12.3 Bioaccumulative potential

Assessment/classification

kein relevanter Bestandteil

12.4 Mobility in soil

Assessment/classification

kein relevanter Bestandteil

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

Table with 4 columns: Effective dose, Method, Evaluation, Source, Remark. Row: Endocrine disrupting properties, Es sind keine endokrin aktive Substanzen mit schädlichen Wirkungen enthalten.

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

Appropriate disposal / Package

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



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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	-	-	-

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 -
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 -
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 -



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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

REACH-Verordnung (EG Nr. 1907/2006):

- Der/die enthaltenen Stoffe sind nicht in Anhang XIV (Zulassungspflicht) aufgeführt.
- Der/die enthaltenen Stoffe unterliegen keinen Beschränkungen nach Anhang XVII.

National regulations

Additional information

ChemVerbVO beachten.

15.2 Chemical Safety Assessment

No data available

*** SECTION 16: Other information**

*** Abbreviations and acronyms**

Aerosol 1: Aerosols, Category 1
Skin Irrit. 2: Skin irritation, Category 2
Eye Irrit. 2: Eye irritation, Category 2
Skin Sens. 1: Skin sensitizer, Category 1
Skin Sens. 1B: Skin sensitizer, Sub-category 1B
Muta. 1B: Germ cell mutagen, Sub-category 1B
Carc. 1A: Carcinogen, Category 1A
Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.

Indication of changes

* Data changed compared with the previous version