



ES WIRKT.

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

Ceramic dry lubrication

Print date 20.03.2026
Revision date 12.03.2026
Version 10.2 (en)
replaces version of 26.02.2026 (10.1)

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

*** 1.1 Product identifier**

Trade name/designation Ceramic dry lubrication
Art-Nr 15360
Unique Formula Identifier UFI: XTHC-X1A0-V00D-X0V9

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

Use of the substance/mixture

Lubricant (dry lubrication)

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	

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]



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Hazard pictograms



GHS02

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.
P501 Dispose of contents / container to recycling
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.

2.3 Other hazards

Adverse human health effects and symptoms

Endocrine disruption ecotoxicity: This mixture does not contain any components according to REACH Art. 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.
The mixture does not contain substances with persistent, bioaccumulative and toxic or very persistent and very bioaccumulative properties according to Annex XIII of the REACH Regulation.

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
74-98-6	200-827-9	601-003-00-5	propane	35 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	601-004-00-0	butane	15 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			
01-2119486944-21			propane			
01-2119474691-32			butane			

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.



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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.

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



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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.

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

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



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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] (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

Gloves (solvent-resistant)

The material of the gloves has to be impermeable and consistent for the substance. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Since the product is a preparation of several substances, the resistance of glove materials is not predictable and must therefore be checked before use.

The choice of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer.

In case of spray contact: glove material chloroprene rubber, layer thickness: ≥ 0.5 mm, breakthrough time: ≥ 120 min

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



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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		
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.



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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.
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



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STOT-repeated exposure

not determined

Aspiration hazard

not determined

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	LC50: > 8100 mg/L Species <i>Leuciscus idus</i> (golden orfe) Test duration 48 h		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 > 9000 mg/L Species <i>Daphnia magna</i> (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 <i>Pseudomonas putida</i> 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



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Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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).

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

For further information, see point 14.7 below.

14.7 Maritime transport in bulk according to IMO instruments

Bulk cargo transport in accordance with Annex II of the MARPOL Convention and the IBC Code.
The cargo is not transported as bulk cargo.

All transport carriers

No data available



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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

EU legislation

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

To follow:

Aerosol directive (75/324/EEC)

15.2 Chemical Safety Assessment

National regulations

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



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SECTION 16: Other information

Indication of changes

* Data changed compared with the previous version

Abbreviations and acronyms

PBT: persistent and bioaccumulative and toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Dangerous goods regulations for transport by rail
VOC: Volatile organic compounds
vPvB: very persistent, very bioaccumulative
OECD: Organisation for Economic Cooperation and Development
OEL: Occupational exposure limit (EU)
Aerosol 1: Aerosols, Category 1
Muta. 1B: Germ cell mutagen, Sub-category 1B
Carc. 1A: Carcinogen, Category 1A

Key literature references and sources for data

The classification of the mixture is based on the results of the calculation method (conventional method) of VO 1272/2008. According to the manufacturer's experience, dangers beyond the labeling are not to be expected.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Berechnungsmethode auf Basis von Prüfdaten

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.
H340 May cause genetic defects.
H350 May cause cancer.

Indication of changes

* Data changed compared with the previous version