

Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017
1. Identification of the substa	ince/mixture and of the company/u	ndertaking
1.1 Product identifier		
Product name	: QUIETSCH-EX Spray	
Article-No.	: 081071	
	he substance or mixture and uses adv	ised against
Use of the	: Lubricant spray	
Substance/Mixture Recommended restrictions on use	: Restricted to professional users.	
1.3 Details of the supplier of the	safety data sheet	
	Klüber Lubrication München	

Geisenhausenerstr. 7 81379 München Deutschland Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com

E-mail address Responsible/issuing person	:	mcm@klueber.com Material Compliance Management
National contact	:	Klüber Lubrication Deutschland Geisenhausenerstraße 7 81379 München Deutschland Tel.: +49 89 7876 0 Fax: +49 89 7876 565 customer.service.de@klueber.com www.klueber.com

1.4 Emergency telephone number

+49 89 7876 700 (24 hrs)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

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

2.2 Label elements





Version 3.1		Revision Date 1	8.09.2017	Print Date 18.09.2017	
Labelling (REGULATION (Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	H222 H229	Extremely flammable aer Pressurised container: N		
Precautionary statements	:	Prevention: P210 P211 P251	Keep away from heat, ho open flames and other ig smoking. Do not spray on an open ignition source. Do not pierce or burn, ev	nition sources. No	
		Storage: P410 + P412	Protect from sunlight. Do temperatures exceeding		

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Propellant Mineral oil.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No	[%]
	Index-No.	<u>1272/2008</u>)	
	Registration number		
Substances with a work	place exposure limit :		
isobutane	75-28-5	Flam. Gas 1; H220	>= 30 - < 50
	200-857-2 601-004-00-0	Press. Gas Compr. Gas; H280	
	601-004-00-0	H200	
propane	74-98-6	Flam. Gas 1; H220	>= 1 - < 10
propario	200-827-9	Press. Gas Compr. Gas;	
	601-003-00-5	H280	
butane	106-97-8	Flam. Gas 1; H220	>= 1 - < 10
	203-448-7	Press. Gas Compr. Gas;	
	601-004-00-0	H280	

For the full text of the H-Statements mentioned in this Section, see Section 16.





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Version 3.1
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Revision Date 18.09.2017

Print Date 18.09.2017

4. First aid measures

4.1 Description of first aid measures

If inhaled	 Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	 Remove contaminated clothing. If irritation develops, get medical attention. Wash off with soap and plenty of water. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	 Move the victim to fresh air. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.
4.2 Most important symptor	ns and effects, both acute and delayed
Symptoms	 Inhalation may provoke the following symptoms: Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	substance or mixture
Specific hazards during firefighting	:	Fire may cause evolution of: Carbon oxides





Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017
	 Fire Hazard Do not let product enter drains. Contains gas under pressure; may explode Beware of vapours accumulating to form exconcentrations. Vapours can accumulate in 	plosive
5.3 Advice for firefighters		
Special protective equipment for firefighters	 In the event of fire, wear self-contained bread Use personal protective equipment. In the case of respirable dust and/or fumes breathing apparatus. Exposure to decomposition products may be health. 	, use self-contained
Further information	 Standard procedure for chemical fires. Collect contaminated fire extinguishing wate must not be discharged into drains. Cool containers/tanks with water spray. 	er separately. This

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	
Environmental precautions	 Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.
	Non-sparking tools should be used.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

: Do not use in areas without adequate ventilation.





Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017	
	Do not breathe vapours or spray mist In case of insufficient ventilation, wea equipment. Avoid contact with skin and eyes. For personal protection see section 8 Keep away from fire, sparks and heat Smoking, eating and drinking should I application area. Wash hands and face before breaks a handling the product. Do not ingest. Do not use sparking tools. These safety instructions also apply to may still contain product residues. Pressurized container: protect from si expose to temperatures exceeding 50 burn, even after use.	r suitable respiratory ted surfaces. be prohibited in the and immediately after o empty packaging which unlight and do not	
7.2 Conditions for safe st	7.2 Conditions for safe storage, including any incompatibilities		

Requirements for storage areas and containers	:	BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.
German storage class	:	2B Aerosol cans and lighters
7.3 Specific end use(s)		
	:	Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m3	2006-01-01	DE TRGS 900
Further information:	DFG: Senate (MAK-commis		for the review of comp	ounds at the work place	dangerous for the health
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m3	2006-01-01	DE TRGS 900
Further information:		DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	2006-01-01	DE TRGS 900





Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017
Further information:	DFG: Senate commission for the review of compounds at the work p (MAK-commission).	lace dangerous for the health

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrate that exposures are within recommended exposure guideline Short term only Filter type A-P	
	For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore h to be measured for each case. In case of contact through splashing: Nitrile rubber Protective index Class 1	ne
Eye protection	Safety glasses with side-shields conforming to EN166	
Hygiene measures	Wash face, hands and any exposed skin thoroughly after handling.	
Protective measures	The type of protective equipment must be selected accordin to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.	e.
Environmental exposure controls		
General advice	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.	

9. Physical and chemical properties

Values refer to the propellant:





Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017
9.1 Information on basic ph Appearance	nysical and chemical properties : aerosol	
Colour	: colourless	
Odour	: characteristic	
Odour Threshold	: No data available	
рН	: No data available	
Melting point/range	: No data available	
Boiling point/boiling range	: < 34 °C	
Flash point	: -80 °C, Test Method: closed cup	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Extremely flammable aerosol.	
Lower explosion limit	: 1,8 %(V)	
Upper explosion limit	: 11,2 %(V)	
Vapour pressure	: > 1.200 hPa, 20 °C	
Relative vapour density	: No data available	
Density	: 0,60 g/cm3, 20 °C	
Water solubility	: insoluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Ignition temperature	: > 350 °C	
Thermal decomposition	: No data available	
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
9.2 Other information		
Sublimation point	: No data available	
Bulk density	: No data available	

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions



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Version 3.1	Revision Date 18.09.2017	Print Date 18.09.2017
Hazardous reactions	: No dangerous reaction known under	conditions of normal use.
10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
10.5 Incompatible materials		
Materials to avoid	: Oxidizing agents	
10.6 Hazardous decomposition products		
Hazardous decomposition products	: No decomposition if stored and appli	ed as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	:	This information is not available.
Acute inhalation toxicity	:	Inhalation may provoke the following symptoms:, Respiratory disorder
Acute dermal toxicity	:	This information is not available.
Skin corrosion/irritation	:	This information is not available.
Serious eye damage/eye irritation	:	Contact with eyes may cause irritation.
Respiratory or skin sensitisation	:	This information is not available.
Germ cell mutagenicity		
Genotoxicity in vitro	:	No data available
Genotoxicity in vivo	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	No data available
Teratogenicity	:	No data available
Repeated dose toxicity	:	This information is not available.
Aspiration toxicity	:	This information is not available.
Further information	:	Information given is based on data on the components and the toxicology of similar products.
Components: isobutane : Acute inhalation toxicity	:	LC50: 658 mg/l, 4 h, Rat, gas
butane : Acute inhalation toxicity	:	LC50: 658 mg/l, 4 h, Rat, gas





Version 3.1

Revision Date 18.09.2017

Print Date 18.09.2017

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:
-	No data available
Toxicity to daphnia and other	:
aquatic invertebrates	No data available
Toxicity to algae	:
	No data available
Toxicity to bacteria	:
-	No data available

12.2 Persistence and degradability

Product:

Biodegradability	:
Physico-chemical removability 12.3 Bioaccumulative potential	No data available : No data available
Product:	
Bioaccumulation	: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
12.4 Mobility in soil	
Product:	
Mobility Distribution among environmental compartments 12.5 Results of PBT and vPvB ass	: No data available : No data available sessment
Product:	
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	
Product:	
Additional ecological information	: No information on ecology is available.





Version 3.1	Revision Date 18.09.2017	Print Date 18.09.201
13. Disposal considerations		
13.1 Waste treatment methods		
Product	: In accordance with local and nation	al regulations.
		-
	: Waste codes should be assigned by application for which the product wa	
Contaminated packaging	: Offer empty spray cans to an establ Pressurized container: Do not pierce	
14. Transport information		
14.1 UN number		
ADR IMDG	: 1950	
IATA	: 1950 : 1950	
14.2 Proper shipping name		
ADR	: AEROSOLS : AEROSOLS	
IMDG IATA	: AEROSOLS : AEROSOLS, FLAMMABLE	
14.3 Transport hazard class		
ADR	: 2	
IMDG IATA	: 2.1 : 2.1	
14.4 Packing group ADR		
Classification Code	: : 5F	
Labels Tunnel restriction code	: 2.1 : (D)	
IMDG	. (D)	
Labels	: 2.1	
EmS Number IATA	: F-D, S-U	
Packing instruction (cargo	: 203	
aircraft) Labels	: 2.1	
14.5 Environmental hazards		
ADR Environmentally hazardous IMDG	: no	
Marine pollutant	: no	
IATA Environmentally hazardous	: no	

14.6 Special precautions for user





Version 3.1

Revision Date 18.09.2017

Print Date 18.09.2017

No special precautions required.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Remarks : Not applicable for product as supplied.

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Major Accident Hazard Legislation	: 2012/18/EU Update: FLAMMABLE AEROSOLS P3a Quantity 1: 150 t Quantity 2: 500 t
	: 96/82/EC Update: Extremely flammable 8 Quantity 1: 10 t Quantity 2: 50 t
	 2012/18/EU Update: Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) 34 Quantity 1: 2.500 t Quantity 2: 25.000 t
Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)	: Volatile organic compounds (VOC) content: 43,1 % VOC content excluding water
Water contaminating class (Germany)	: WGK 1: slightly water endangering
TA Luft List (Germany)	 Total dust: Portion other substances: 2,49 % Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: Portion other substances: 97,51 % Carcinogenic substances: Not applicable





Version 3.1

Revision Date 18.09.2017

Print Date 18.09.2017

Mutagenic: Not applicable Toxic to reproduction: Not applicable

15.2 Chemical safety assessment

This information is not available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

Further information

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