Revision: 10.10.2023

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.10.2023

Version number 12 (replaces version 11)

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

· 1.1 Product identifier

· Trade name: PTFE-Spray

· Art.-No.: LOS 210

· **UFI**: *Q1K0-F0QE-200A-RMDU*

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Lubricant

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

EURO-LOCK Vertriebs GmbH

Nordweststr. 3

D - 59387 Ascheberg

Tel. +49 (0)2593 / 95887-0

Fax +49 (0) 2593 / 95887-29

info@euro-lock.de

www.euro-lock.de

· Further information obtainable from:

Vertrieb (über Zentrale) / Sales Department (via switchboard) Tel. +49 (0)2593 / 95887-0

· 1.4 Emergency telephone number:

Zentrale / Telephone switchboard

Tel. +49 (0)2593 / 95887-0

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

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

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.

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.

P260 Do not breathe vapours/spray.

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

P501 Dispose of container with content as special waste.

- · 2.3 Other hazards Smoking of contaminated tobacco may cause polymer-smoke-fever
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

- EU

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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description:

Mixture of substances listed below with nonhazardous compounds or compounds with no duty to declare.

· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	Butane (< 0,1 % 1,3-butadiene) Flam. Gas 1A, H220 Press. Gas (Liq.), H280	50-100%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Liq.), H280	10-25%
CAS: 64742-49-0 EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alcanes, isoalcanes, cyclics Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 EUH066 Specific concentration limit: STOT SE 3; H336: C ≥ 15 %	2,5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	Isobutane (< 0,1 % 1,3-butadiene) Flam. Gas 1A, H220 Press. Gas (Liq.), H280	2,5-10%

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses if possible.

- · After swallowing: If symptoms persist consult doctor.
- Information for doctor: Smoking of contaminated tobacco may cause polymer-smoke-fever
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Fluorinated pyrolysis products

During heating or in case of fire poisonous gases are produced.

Risk of bursting in case of fire heat

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- · 5.3 Advice for firefighters
- · Protective equipment:

Mouth respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Let volatiles evaporate - stem up residues mechanically

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 15 35°C, max. 50°C
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

	Ingredients with limit values that require monitoring at the workplace:		
ſ	106-97-8 Butane (< 0,1 % 1,3-butadiene)		
		Long-term value: 2400 mg/m³, 1000 ppm 4(II);DFG	
	MAK (Switzerland)	Short-term value: 7600 mg/m³, 3200 ppm Long-term value: 1900 mg/m³, 800 ppm	

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74-98-6 pr	onane		(Contd. of
4-90- 0 pi 4GW (Ger	-	Long-term value: 1800 mg/m³, 1000 ppm 4(II);DFG	
MAK (Swi	tzerland)	Short-term value: 7200 mg/m³, 4000 ppm Long-term value: 1800 mg/m³, 1000 ppm	
64742-49-	0 Hydroc	earbons, C7-C9, n-alcanes, isoalcanes, cyclics	
AGE (Geri		Long-term value: 700 mg/m³ TRGS 900	
75-28-5 Is	obutane ((< 0,1 % 1,3-butadiene)	
AGW (Ger	many)	Long-term value: 2400 mg/m³, 1000 ppm 4(II);DFG	
MAK (Swi	tzerland)	Short-term value: 7600 mg/m³, 3200 ppm Long-term value: 1900 mg/m³, 800 ppm	
9002-84-0	Polytetra	ufluoroethylene	
MAK (Ger	many)	Long-term value: 0,3 A* 4E** mg/m³ *: Abschn.Vf+Xc; **: Abschn.V, f+g, Xc	
67-63-0 Pi	ropan-2-d	\overline{bl}	
AGW (Ger	many)	Long-term value: 500 mg/m³, 200 ppm 2(II);DFG, Y	
MAK (Swi	tzerland)	Short-term value: 1000 mg/m³, 400 ppm Long-term value: 500 mg/m³, 200 ppm B SSc;	
DNELs			
64742-49-	0 Hydroc	arbons, C7-C9, n-alcanes, isoalcanes,cyclics	
Oral	DNEL E	Indverbraucher/ Consumers /Consommateur	699 mg/kg BW/ day (.) chronisch - systemische Wirkungen
Dermal	DNEL -	Endverbraucher/ Consumers /Consommateur	699 mg/kg BW /day (.) chronisch - systemische Wirkungen
	DNEL A	Arbeiter / Workers/ Travailleur	773 mg/kg BW /day (.) chronisch - systemische Wirkungen
Inhalative	DNEL E	Indverbraucher/ Consumers /Consommateur	608 mg/m3 (.) chronisch - systemische Wirkungen
	DNEL A	rbeiter / Workers/ Travailleur	2.035 mg/m3 (.) chronisch - systemische Wirkungen

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Ingredients with biological limit values: 67-63-0 Propan-2-ol BGW (Germany) 25 mg/lUntersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton 25 mg/lUntersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton BAT (Switzerland) 25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton 25 mg/l

· Additional information: The lists valid during the making were used as basis.

Untersuchungsmaterial: Vollblut

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.

Biol. Parameter: Aceton

- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Not necessary if room is well-ventilated.



Use suitable respiratory protective device in case of insufficient ventilation.

Probennahmezeitpunkt: Expositionsende bzw. Schichtende

Filter: ABEK-P2 · Hand protection · Material of gloves



If contamination is possible, use gloves made of nitrile according EN 374

- · Penetration time of glove material > 480 min / 0,4 mm thickness
- · Eye/face protection



Safety glasses in case of spittings

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information

· Colour: Whitish Odour: Recognisable

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(Contd. of page 5) · Odour threshold: Not determined. · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling -44 °C value concers to propellant · Flammability Contains extremely flammable liquefied gas · Lower and upper explosion limit · Lower: 1.5 Vol % · Upper: 10,9 Vol % (74-98-6 propane) -97 °C · Flash point: concerns to propellant 365 °C · Auto-ignition temperature: · Decomposition temperature: Not determined. Not applicable. $\cdot pH$ · Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined. ·Solubility Not miscible or difficult to mix. · water: · Partition coefficient n-octanol/water (log value) Not determined. · Pressure (20°C) 3,5 - 5,5 bar · Density and/or relative density Density at 20 °C: ca. 0,59 g/cm3 · Relative density Not determined. Not determined. · Vapour density 9.2 Other information · Appearance: · Form: Aerosol · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. · Explosive properties: Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air. · Solvent content: 8,5 % · Organic solvents: 97,80 % · VOC (EC) · Solids content: 2,2 % · Change in condition Not applicable. · Evaporation rate · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void Extremely flammable aerosol. Pressurised container: · Aerosols May burst if heated. · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void

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· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

· Additional information Vapors are heavier than air.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures >50°C.
- · 10.3 Possibility of hazardous reactions

By use or incidental release the formation of explosive vapor/air mixtures is possible.

· 10.4 Conditions to avoid

Temperatures >50°C

Avoid the use in the near of ignition sources.

- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Danger of toxic fluorine based pyrolysis products.
- · Additional information: Stable for a storage time of min. 24 months

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:			
106-97-8 H	106-97-8 Butane (< 0,1 % 1,3-butadiene)		
Inhalative	LC50/4 h	658 mg/l (rat)	
74-98-6 pr	opane		
Inhalative	LC50/4 h	>20 mg/l (rat)	
	LC50 /15 min 1.443 mg/l (rat)		
64742-49-	64742-49-0 Hydrocarbons, C7-C9, n-alcanes, isoalcanes, cyclics		
Oral	LD50	>5.000 mg/kg (rat)	
Dermal	LD50	>2.800 mg/kg (rabbit)	
Inhalative	LC50/4 h	>23,3 mg/l (rat)	
75-28-5 Is	75-28-5 Isobutane (< 0,1 % 1,3-butadiene)		
Inhalative	LC50/4 h	>20 mg/l (rat)	

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation low
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

- EU

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

64742-49-0 Hydrocarbons, C7-C9, n-alcanes, isoalcanes, cyclics

EC 50 / 48h | 3 mg / l (daphnia) LC 50 / 96 h | >13,4 mg / l (onc)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

empty cans: material recycling

filled cans: remove in accordance with local regulations

Hand over to hazardous waste disposers.

·Eu	· European waste catalogue		
16	16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST		
16	05 00	gases in pressure containers and discarded chemicals	
16 (16 05 04* gases in pressure containers (including halons) containing hazardous substances		

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 1	14: 1ra	nsport i	ınfor	mai	ron
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· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable

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	(Contd. of page
· 14.3 Transport hazard class(es)	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA	
· Class	2.1 Gases.
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code · Segregation Code	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity about 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separated from" clast 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of clast 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of clast 2.
· 14.7 Maritime transport in bulk according to IM instruments	Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Remarks:	Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombing with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 k (rgross weight) or more. Hazardous goods under the transport regulations listed above may be subject to special regulations. For details

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	please consult the relevant transport regulations
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
NK	2,5-10

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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· Version number of previous version: 11

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Liq.): Gases under pressure – Liquefied gas Flam. Liq. 2: Flammable liquids – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3