

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

Printing date 15.10.2020

Version number 68

Revision: 14.09.2020

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking** · 1.1 Product identifier · Trade name: PTFE-Spray · 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: WINKEL GmbH Lisztstraße 1 53881 Euskirchen - Germany Tel. +49 2251 77 69 400-401 Telefax:+49 (0) 22517769402 www.winkelgroup.de info@winkelgroup.de • 1.4 Emergency telephone number: 112 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 May cause drowsiness or dizziness. H336 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. 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 GHS07 · Signal word Danger · Hazard-determining components of labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation.

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H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
· Precaut	ionary statements
P101	If medical advice is needed, have product container or label at hand.
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.
P261	Avoid breathing vapours or spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P410+P4	412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to hazardous or special waste collection point.
· Additio	nal information:
Buildup	of explosive mixtures possible without sufficient ventilation.
· 2.3 Oth	erhazards
· Results	of PBT and vPvB assessment
· PBT: No	ot applicable.
· vPvB: N	lot applicable.
SECT	ION 3: Composition/information on ingredients
· 3.2 Mixt	tures
	tion. Mixture of substances listed below with nonbazardous additions

· Description: Mixture of substances listed below with nonhazardous additions.

propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-<50%
butane, pure Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-<50%
isobutane Flam. Gas 1, H220; Press. Gas (Comp.), H280	10-<20%
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
	<ul> <li>Flam. Gas 1, H220; Press. Gas (Comp.), H280</li> <li>butane, pure</li> <li>Flam. Gas 1, H220; Press. Gas (Comp.), H280</li> <li>isobutane</li> <li>Flam. Gas 1, H220; Press. Gas (Comp.), H280</li> <li>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, &lt; 5</li> <li>n-hexane</li> <li>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336</li> <li>Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes</li> <li>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic</li> </ul>

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

#### · After inhalation:

Supply fresh air; consult doctor in case of complaints. Take affected persons into fresh air and keep quiet.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product.

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· After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed
- Breathing difficulty Headache
- Dizziness
- Dizziness
- Coughing

Nausea

• **4.3 Indication of any immediate medical attention and special treatment needed** If swallowed or in case of vomiting, danger of entering the lungs.

Later observation for pneumonia and pulmonary oedema.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- $\cdot$  Suitable extinguishing agents:
- Fire-extinguishing powder
- Carbon dioxide
- Use fire extinguishing methods suitable to surrounding conditions.
- Foam
- $\cdot$  5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6: Accidental release measures**

- $\cdot$  6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Keep away from ignition sources.
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- 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**

## $\cdot$ 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes.

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Information about fine and embodien methodien.	(Contd. of page 3)
<b>Information about fire - and explosion protection:</b> Keep ignition sources away - Do not smoke.	
Pressurised container: protect from sunlight and do not expose to temperature	es exceeding 50°C, i.e. electric
lights. Do not pierce or burn, even after use.	
7.2 Conditions for safe storage, including any incompatibilities	
torage:	
Requirements to be met by storerooms and receptacles:	
Observe official regulations on storing packagings with pressurised container	S.
Information about storage in one common storage facility: Not required. Further information about storage conditions: Protect from heat and direc	t suplight
<b>7.3 Specific end use(s)</b> No further relevant information available.	t sumgnt.
SECTION 8: Exposure controls/personal protection	
Additional information about design of technical facilities: No further dat	a; see item 7.
Ingredients with limit values that require monitoring at the workplace:	
CAS: 106-97-8 butane, pure	
WEL Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm	
Carc (if more than 0.1% of buta-1.3-diene)	
Additional information: The lists valid during the making were used as basi	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. <b>Respiratory protection:</b> In case of brief exposure or low pollution use respiratory filter device. In case use self-contained respiratory protective device. Not necessary if room is well-ventilated. <b>Recommended filter device for short term use:</b> Filter AX <b>Protection of hands:</b>	e of intensive or longer exposure
Protective gloves	hotopoo/the memorytics
The glove material has to be impermeable and resistant to the product/ the sul <b>Material of gloves</b> (EN 374) Nitrile rubber, NBR	stance/ the preparation.
Recommended thickness of the material: $\geq 0.45 \text{ mm}$	
Penetration time of glove material ≥240 min	

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: (EN 166) Body protection: (EN 13034-6) Protective work clothing

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9 1 Information on basic physical and c	hemical properties	
<ul> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> </ul>		
· Appearance:		
Form:	Aerosol	
Colour:	Whitish	
· Odour:	Petrol-like	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
• Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	:: <0 °C	
Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gas):	Extremely flammable liquefied gas.	
Ignition temperature:	>200 °C	
Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Explosive properties:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	0.60191 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	92.5 %	
VOC (EC)	556.9 g/l	
Solids content:	0.0 %	
• 9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- $\cdot$  10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.

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 $\cdot$  10.6 Hazardous decomposition products: Aldehyde

## **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

## CAS: 74-98-6 propane

Inhalative LC50/4 h >20 mg/l (rat)

CAS: 106-97-8 butane, pure

Inhalative LC50/4 h 658 mg/l (rat)

# CAS: 75-28-5 isobutane

Inhalative LC50/4 h 658 mg/l (rat)

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane

Oral	LD50	>5,000 mg/kg (rat) (OECD Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD Prüfrichtlinie 402)

Inhalative LC50/4 h >20 mg/l (rat) (OECD Prüfrichtlinie 403)

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

Oral	LD50	>5,840 mg/kg (rat)
Dermal		>2,920 mg/kg (rat)
Inhalative	LC50/4 h	>25.2 mg/l (rat)

#### · Primary irritant effect:

#### · Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Harmful to aquatic organisms

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#### $\cdot$ 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

#### 15 01 04 metallic packaging

· Uncleaned packaging:

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• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN1950
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR/RID/ADN</li> <li>· IMDG</li> <li>· IATA</li> </ul>	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR/RID/ADN</li> </ul>	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA	
· Class	2.1
·Label	2.1
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Code</li> </ul>	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category

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	C, Clear of living quarters.		
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1		
	litre:		
	Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.		
	For AEROSOLS with a capacity above 1 litre:		
	Segregation as for the appropriate subdivision of class 2.		
	For WASTE AEROSOLS:		
	Segregation as for the appropriate subdivision of class 2.		
· 14.7 Transport in bulk according to Annex II of			
Marpol and the IBC Code	Not applicable.		
· Transport/Additional information:			
· ADR/RID/ADN			
· Limited quantities (LQ)	1L		
• Excepted quantities (EQ)	Code: E0		
( <b></b> ()	Not permitted as Excepted Quantity		
· Transport category	2		
• Tunnel restriction code	D		
· IMDG			
· Limited quantities (LQ)	11.		
• Excepted quantities (EQ)	Code: E0		
Excepted quantities (EQ)	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
- $\cdot$  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
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements  $500\ t$
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Product Safety department.
- · Contact: Jan Söder
- · 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)

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ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concer	rning the International
Carriage of Dangerous Goods by Road)	0
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1: Flammable gases – Category 1	
Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – 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	
* Data compared to the previous version altered.	
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