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

1.1. Product identifier

Trade name/designation:

VOSSCHEMIE Trennspray

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

Use of the substance/mixture:

Lubricants, greases, release products

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Vosschemie Benelux byba Mechelsesteenweg 303 B-2500 Lier

Tel: +32 (0)3 489 28 28 Fax: +32 (0)3 488 19 27

mailto: info@vosschemie-benelux.com

1.4. Emergency telephone number

Nederland: NVIC: +31 (0)30 274 88 88 België: Antigifcentrum: +32 (0)70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification pro cedure
Aerosols (Aerosol 1)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:





GHS07 Exclamation mark



Environment

Signal word: Danger

Hazard components for labelling:

Hydrocarbones C6-C7, n-alkanes, isoalkanes, cyclenes

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hazard statements for physical hazards		
H222	Extremely flammable aerosol.	
H229	Pressurised container: May burst if heated.	

hazard statements for health hazards		
H336	May cause drowsiness or dizziness.	

Hazard statements for environmental hazards		
H411	Toxic to aquatic life with long lasting effects.	

Supplemental hazard information		
EUH018	In use may form flammable/explosive vapour-air mixture.	

Precautionary Statements Prevention		
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 dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P273	Avoid release to the environment.	

Precautionary Statements Response		
P312	Call a POISON CENTER/doctor/ if you feel unwell.	

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

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of the following substances and non-hazardous substances.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 106-97-8	butane Flam. Gas 1, Press. Gas	26 - 44 Vol-%
EC No.: 203-448-7 REACH No.: 01-2119474691-32	 ♦ ♦ Danger H220 	VOI 70
EC No.: 920-750-0 REACH No.: 01-2119473821-33-0000	Hydrocarbones C6-C7, n-alkanes, isoalkanes, cyclenes Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3 Danger H225-H304-H336-H411	
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	propane Flam. Gas 1, Press. Gas Danger H220	14 - 24 Vol-%

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Do NOT induce vomiting. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Pneumonia Pulmonary oedema Drowsiness Dizziness

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray Foam Dry extinguishing powder

Unsuitable extinguishing media:

Full water iet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide

Carbon dioxide (CO2)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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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 cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Emergency cooling must be provided for in case of a fire in the vicinity.

Measures to prevent aerosol and dust generation:

Provide adequate ventilation as well as local exhaustion at critical locations.

Environmental precautions:

Do not empty into drains; dispose of this material and its container in a safe way.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

Storage class: 2B - Aerosol dispensers and lighters

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	 long-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
MY	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)
СН	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³) ② 3,200 ppm (7,200 mg/m³)
MAK (AT)	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)

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Limit value type (country of origin)	Substance name	 long-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
PL	butane CAS No.: 106-97-8	① 1,900 mg/m³ ② 3,000 mg/m³
TRGS 900 (DE)	butane CAS No.: 106-97-8	① 1,000 ppm (2,400 mg/m³) ② 4,000 ppm (9,600 mg/m³)
NO	butane CAS No.: 106-97-8	① 250 ppm (600 mg/m³)
IE	butane CAS No.: 106-97-8	① 1,000 ppm
FI	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³) ② 1,000 ppm (2,400 mg/m³)
DK	butane CAS No.: 106-97-8	① 500 ppm (1,200 mg/m³) ② 1,000 ppm (2,400 mg/m³)
PT	butane CAS No.: 106-97-8	① 1,000 ppm
MAK (AT)	butane CAS No.: 106-97-8	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht)
BG	butane CAS No.: 106-97-8	① 1,900 mg/m³
HR	butane CAS No.: 106-97-8	① 600 ppm (1,450 mg/m³) ② 750 ppm (1,810 mg/m³)
BE	butane CAS No.: 106-97-8	② 980 ppm (2,370 mg/m³)
EE	butane CAS No.: 106-97-8	① 800 ppm (1,500 mg/m³)
Alberta (CA)	butane CAS No.: 106-97-8	① 1,000 ppm
ES	butane CAS No.: 106-97-8	① 1,000 ppm
LV	butane CAS No.: 106-97-8	① 300 mg/m³
BC (CA)	butane CAS No.: 106-97-8	② 1,000 ppm
Ontario (CA)	butane CAS No.: 106-97-8	① 1,000 ppm
SK	butane CAS No.: 106-97-8	① 1,000 ppm (2,400 mg/m³) ⑤ (krátkodobý Kategória IA)
VLA (FR)	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)
WEL (GB)	butane CAS No.: 106-97-8	① 600 ppm (1,450 mg/m³) ② 750 ppm (1,810 mg/m³)
SI	butane CAS No.: 106-97-8	① 1,000 ppm (2,400 mg/m³) ② 4,000 ppm (9,600 mg/m³)
TW	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)
KR	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)
IS	butane CAS No.: 106-97-8	① 500 ppm (1,200 mg/m³)

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Limit value Substance name ① long-term occupational exposure limit value			
type (country of origin)		② short-term occupational exposure limit value	
or origini,		③ Instantaneous value	
		Monitoring and observation processes	
1111	hta.a.a	⑤ Remark	
HU	butane CAS No.: 106-97-8	① 2,350 mg/m³ ② 9,400 mg/m³	
GR	butane CAS No.: 106-97-8	① 1,000 ppm (2,350 mg/m³)	
JP	butane CAS No.: 106-97-8	① 500 ppm (1,200 mg/m³)	
RU	butane CAS No.: 106-97-8	① 300 mg/m³ ③ 900 mg/m³	
NIOSH (US)	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)	
ACGIH (US)	butane CAS No.: 106-97-8	① 1,000 ppm	
Québec (CA)	butane CAS No.: 106-97-8	① 800 ppm (1,900 mg/m³)	
СН	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³) ② 4,000 ppm (7,200 mg/m³)	
PL	propane CAS No.: 74-98-6	① 1,800 mg/m³	
NO	propane CAS No.: 74-98-6	① 500 ppm (900 mg/m³)	
FI	propane CAS No.: 74-98-6	① 800 ppm (1,500 mg/m³) ② 1,100 ppm (2,000 mg/m³)	
PT	propane CAS No.: 74-98-6	① 1,000 ppm	
TRGS 900 (DE)	propane	① 1,000 ppm (1,800 mg/m³)	
	CAS No.: 74-98-6	② 4,000 ppm (7,200 mg/m³)	
BG	propane CAS No.: 74-98-6	① 1,800 mg/m³	
DK	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³) ② 2,000 ppm (3,600 mg/m³)	
BE	propane CAS No.: 74-98-6	① 1,000 ppm	
MAK (AT)	propane CAS No.: 74-98-6	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)	
RO	propane CAS No.: 74-98-6	① 778 ppm (1,400 mg/m³) ② 1,000 ppm (1,800 mg/m³)	
EE	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)	
Alberta (CA)	propane CAS No.: 74-98-6	① 1,000 ppm	
IE	propane CAS No.: 74-98-6	① 1,000 ppm	
MAK (AT)	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)	
SI	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³) ② 4,000 ppm (7,200 mg/m³)	
TW	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)	

en / GB / FR / SK / FI / JP / ...

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Limit value type (country of origin)	Substance name	 long-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
IS	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)
MY	propane CAS No.: 74-98-6	① 2,500 ppm
GR	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)
LV	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)
OSHA (US)	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)
NIOSH (US)	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)
Québec (CA)	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) min In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol Colour: whitish

Odour: characteristic

Safety relevant basis data

_				
parameter		at °C	Method	Remark
рН	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not applicable			n.r. AEROSOL
Decomposition temperature	not determined			
Flash point	-40 °C			

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parameter		at °C	Method	Remark
Evaporation rate	not determined			
Auto-ignition temperature	> 200 °C			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	0.69 - 0.72 g/cm ³	20 °C		
Bulk density	not determined			
Water solubility	not determined			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable gas. Risk of explosion if heated under confinement.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
106-97-8	butane	LC ₅₀ Acute inhalation toxicity (gas): >658 ppmV 4 h (Rat)
	Hydrocarbones C6-C7, n-alkanes, isoalkanes, cyclenes	LD ₅₀ oral: >5,000 mg/kg (Rat) OECD 401 LD ₅₀ dermal: >2,800 mg/kg (Rabbit) OECD 402
74-98-6	propane	LD ₅₀ oral: 5,050 mg/kg (Rat) LD ₅₀ dermal: 12,800 mg/kg (Rabbit)

Acute oral toxicity:

There are no data available on the preparation/mixture itself.

Acute dermal toxicity:

There are no data available on the preparation/mixture itself.

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Acute inhalation toxicity:

There are no data available on the preparation/mixture itself.

Respiratory or skin sensitisation:

not sensitising.

STOT-single exposure:

May cause respiratory irritation.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
	Hydrocarbones C6-C7, n-alkanes, isoalkanes, cyclenes	LC₅₀: >13.4 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
		EC₅₀: >3 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) IC₅₀: >10 mg/l 3 d (fish, Pseudokirchneriella sub capitata)
74-98-6	propane	LC₅₀: 4,200 – 11,100 mg/l 4 d (fish) LC₅₀: 1,400 mg/l 2 d (crustaceans)

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Sediment toxicity:

There are no data available on the preparation/mixture itself.

Terrestrial toxicity:

There are no data available on the preparation/mixture itself.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
106-97-8	butane	_
	Hydrocarbones C6-C7, n-alkanes, isoalkanes,	_
	cyclenes	
74-98-6	propane	_

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

^{*:} Evidence for disposal must be provided.

Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances

^{*:} Evidence for disposal must be provided.

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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

AEROSOLS 2.1			
AEROSOLS			
2.1			
2.1			
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¥2>			
<u>\tag{\tag{\tag{\tag{\tag{\tag{\tag{</u>			
<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>			
MARINE POLLUTANT			
14.6. Special precautions for user			
Special provisions: Excepted Quantities (EQ): EmS-No.: F-D; S-U Remark:			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

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15.1.2. National regulations



Restrictions of occupation

22 JArbSchG.

5 MuSchRiV.

4 MuSchRiV.

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Data arise from reference works and literature.

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

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification pro cedure
Aerosols (Aerosol 1)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements		
H220	Extremely flammable gas.	
H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	

16.6. Training advice

No data available

16.7. Additional information

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.