



## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Occlutec Spray

Revision date: 07/15/2025

Product code: 1935x000\_USA

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## 1. Identification

### Product identifier

Occlutec Spray

### Further trade names

1935 2000 Occlutec Spray grün

1935 3000 Occlutec Spray rot

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Occlusion spray for the recognition of trouble spots.

#### Uses advised against

No information available.

### Details of the supplier of the safety data sheet

#### Manufacturer

Company name: Renfert GmbH  
Street: Untere Giesswiesen 2  
Place: D-78247 Hilzingen  
Telephone: +49 7731 8208-0  
E-mail: info@renfert.com  
Internet: www.renfert.com

#### Supplier

Company name: Renfert USA  
Street: 3718 Illinois Avenue  
Place: USA-60174 St. Charles IL  
Telephone: (001) 800336-7422  
E-mail: Bob@RenfertUSA.com  
Contact person: Charlie Hagy  
E-mail: Charlie@RenfertUSA.com  
Internet: www.renfert.com

Telephone: +1 (630) 5497380

### Emergency phone number:

USA: 800-222-1222 (National Poison Control number) | CA: British Columbia:  
800-567-8911 or 604-682-5050 Alberta: 1-800-332-1414 or 944-1414 Saskatchewan:  
1-866-454-1212 Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017 Quebec:  
1-800-463-5060 New Brunswick: 911 New Foundland: 1-866-727-1110 Northwest  
Territories: 1-800-332-1414 Nova Scotia: 1-800-565-8161

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Flammable aerosols: Flam. Aerosol 1

Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

Hazardous to the aquatic environment: Aquatic Chronic 3

### Label elements

#### 29 CFR Part 1910.1200

Signal word:

Danger

Pictograms:



### Hazard statements

Extremely flammable aerosol

Pressurized container: may burst if heated

May cause drowsiness or dizziness

Harmful to aquatic life with long lasting effects

### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Store in a well-ventilated place. Keep container tightly closed.

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

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**Hazards not otherwise classified**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Aerosol

**Relevant ingredients**

CAS No	Components	Quantity
109-66-0	pentane	< 20 %

**4. First-aid measures****Description of first aid measures****General information**

Call a POISON CENTER if you feel unwell.

**After inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Rinse skin with water. In case of skin irritation, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth. When in doubt or if symptoms are observed, get medical advice.

**Most important symptoms and effects, both acute and delayed**

May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet , alcohol resistant foam**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Extremely flammable aerosol.

Pressurised container: May burst if heated. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Do not pierce or burn, even after use.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

Do not inhale explosion and combustion gases.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protection equipment.

Remove all sources of ignition.

Provide adequate ventilation.

**Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Provide adequate ventilation.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Handle and open container with care.

**Advice on protection against fire and explosion**

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

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

Provide adequate ventilation.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.

**Further information on storage conditions**

Protect against: Heat, UV-radiation/sunlight

Heating causes rise in pressure with risk of bursting.

Recommended storage temperature: 5°C - 35°C

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
75-28-5	Isobutane	800	1900	TWA (8 h)	REL
106-97-8	n-Butane	800	1900	TWA (8 h)	REL
109-66-0	n-Pentane	120	350	TWA (8 h)	REL
		C 610	C 1800	15 min	REL
109-66-0	Pentane	1000	2950	TWA (8 h)	PEL
74-98-6	Propane	1000	1800	TWA (8 h)	PEL
		1000	1800	TWA (8 h)	REL

**Exposure controls****Appropriate engineering controls**

Safe handling: see section 7

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye protection/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Respiratory protection**

Use only in well-ventilated areas.

Usually no personal respirative protection necessary.

**Environmental exposure controls**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	gaseous / Aerosol	
Color:	various, depending on coloration	
Odor:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		- 44 °C
Flammability:	No data available	
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		10,9 vol. %
Flash point:	not applicable	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
pH-Value:	not applicable	
Viscosity / kinematic:	No data available	
Water solubility:	Immiscible	
Partition coefficient n-octanol/water:	not determined	
Vapor pressure:		2700 hPa
(at 20 °C)		
Density (at 20 °C):		1,28 g/cm <sup>3</sup>
Relative density:	No data available	

**Other information****Information with regard to physical hazard classes****Explosive properties**

In use, may form flammable/explosive vapor-air mixture.

**Self-ignition temperature**

Gas:

No data available

**Other safety characteristics**

Solid content:

&lt; 5 %

**Further Information**

No further relevant information available.

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

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

**Possibility of hazardous reactions**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Pressurised container: May burst if heated.

**Incompatible materials**

Oxidizing agent, strong

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation gas) &gt; 20000 ppm

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
109-66-0	pentane				
	inhalation (4 h) vapour	LC50 364 mg/l	Rat	GESTIS	

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**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects 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.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (pentane)

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

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

**Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Further information**

The product has not been tested. The statement is derived from the properties of the single components.

**12. Ecological information**

Harmful to aquatic life with long lasting effects.

**Persistence and degradability**

There are no data available on the mixture itself.

**Bioaccumulative potential**

There are no data available on the mixture itself.

**Mobility in soil**

There are no data available on the mixture itself.

**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.

**Other adverse effects**

No information available.

**Further information**

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Dispose of waste according to applicable legislation.

**14. Transport information****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 1950

**Proper shipping name:**

AEROSOLS

**Transport hazard class(es):**

2.1

**Hazard label:**

2.1



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**Marine transport (IMDG)**

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
Hazard label: 2.1

**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:** -  
Hazard label: 2.1

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Further information: see section 6, 7, 8

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:  
Butane (106-97-8): Fire hazard  
Pentane (109-66-0): Fire hazard, Immediate (acute) health hazard  
Propane (74-98-6): Fire hazard  
Isobutane (75-28-5): Fire hazard  
Clean Air Act Section 112(r):  
Butane (106-97-8): Threshold quantities = 10,000 lbs.  
Pentane (109-66-0): Threshold quantities = 10,000 lbs.  
Propane (74-98-6): Threshold quantities = 10,000 lbs.  
Isobutane (75-28-5): Threshold quantities = 10,000 lbs.

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

REGULATION (EU) 2024/590 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7 February 2024 on substances that deplete the ozone layer, and repealing Regulation (EC) No 1005/2009: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants: not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not applicable

**16. Other information****Hazardous Materials Identification System (HMIS)**

Health: 1  
Flammability: 4  
Physical Hazard: 1  
Personal Protection: B

**Changes**

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Section 2, 3, 9, 11 \* Data changed compared with the previous version.

**Abbreviations and acronyms**

PBT: persistent and bioaccumulative and toxic

vPvB: Very persistent and very bioaccumulative

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

ATE: Acute Toxicity Estimate

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

**Other data**

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. Restricted to professional users.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*