



Safety Data Sheet

according to 29 CFR 1910.1200(g)

Occlutec Spray

Revision date: 01/26/2023

Product code: 1935xx00_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	Telephone: +1 (630) 5497380
e-mail:	Charlie@RenfertUSA.com	
Internet:	www.renfert.com	

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
Pressurised 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.

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

Aerosol

Hazardous components

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

4. First-aid measures**Description of first aid measures****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 (CO₂), Extinguishing powder, Water spray jet , alcohol resistant foam**Unsuitable extinguishing media**

Full water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. 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

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

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

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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 ³	f/cc	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		Ceiling	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/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 respiratory protection necessary.

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

Aerosol

Color:

various, depending on coloration

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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:		not determined
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		No data available
Water solubility:		Immiscible
Partition coefficient n-octanol/water:		not determined
Vapor pressure: (at 20 °C)		2700 hPa
Density (at 20 °C):		1,28 g/cm ³

Other information

Explosive properties

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

Other safety characteristics

Solid content:

< 5 %

Further Information**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.

In case of warming: Danger of bursting container.

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.

Irritation and corrosivity

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

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**

No information available.



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Further information

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

12. Ecological information

Ecotoxicity

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



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





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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 (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on substances that deplete the ozone layer: 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 hazardous chemicals: not applicable

16. Other information

Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	4
Physical Hazard:	1
Personal Protection:	B
Revision date:	01/26/2023
Revision No:	1,0

Abbreviations and acronyms

PBT: persistent and bioaccumulative and toxic

vPvB: very persistent, 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



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necessarily valid for the new made-up material. Restricted to professional users.

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