

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

FINOSEP Silicone Spray

REF 11449

**Further trade names**BUTANE  
PROPANE

Product group: organische Gase  
CAS No: 74-98-6  
Index No: 601-003-00-5  
EC No: 200-827-9  
UFI: FYP0-X153-S00N-61EP

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

Reserved for industrial and professional use. Auxiliary for dental technology

**Uses advised against**

Observe in addition any national regulations!

**1.3. Details of the supplier of the safety data sheet**

Company name: FINO GmbH  
Street: Mangelsfeld 18  
Place: D-97708 Bad Bocklet  
Telephone: +49-97 08-90 94 20  
e-mail: info@fino.com  
Contact person: Joachim Mahlmeister  
e-mail: info@fino.com  
Responsible Department: This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.

Telefax: +49-97 08-90 94 21

Internet: www.fino.com

Telephone: +49-97 08-90 94 20

**1.4. Emergency telephone number:**

+49-89-1 92 40  
POISON CENTER München  
24 hour(s) 7 day(s)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Aerosol 1; H222-H229  
Skin Irrit. 2; H315  
STOT SE 3; H335  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Kohlenwasserstoffe, C5-C7 n-Alkane, Isoalkane, &lt;5% n-Hexan

**Signal word:** Danger

**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary 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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of this material and its container to hazardous or special waste collection point.

**Special labelling of certain mixtures**

Restricted to professional users.  
Do not open container by force.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws. Classification according to Regulation (EC) No 1272/2008 [CLP]

**2.3. Other hazards**

Do not allow product to reach ground water, water course or sewage system. Results of PBT and vPvB assessment not applicable

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture from the below listed substances with harmless additives.

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
106-97-8	butane			50 - < 75 %
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
-	Kohlenwasserstoffe, C5-C7 n-Alkane, Isoalkane, <5% n-Hexan			10 - < 25 %
	922-114-8			
	Flam. Liq. 1, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H224 H315 H336 H304 H411			
74-98-6	propane			10 - < 25 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
75-28-5	isobutane			1 - < 5 %
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220			

Full text of H and EUH statements: see section 16.

**Further Information**

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

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Do not leave affected person unattended. Remove victim out of the danger area. Put victim at rest, cover with a blanket and keep warm. Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

If breathing is irregular or stopped, administer artificial respiration. Get immediate medical advice/attention. Description of first aid measures In case of respiratory tract irritation, consult a physician. Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

Remove contact lenses, if present and easy to do. Continue rinsing. 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**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

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

Narcotic effects

**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, alcohol resistant foam, BC-powder

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

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

**5.3. Advice for firefighters**

Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Heating causes rise in pressure with risk of bursting. Full protection suit In case of fire: Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

For non-emergency personnel Remove persons to safety.

For emergency responders Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**For non-emergency personnel**

Emergency procedures

Remove victim out of the danger area. Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Wear personal protection equipment (refer to section 8).

**6.2. Environmental precautions**

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

Retain contaminated washing water and dispose it.

**6.3. Methods and material for containment and cleaning up****For containment**

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

Following consultation with waste management company and after biological pre-treatment, landfill together with household waste.

**For cleaning up**

For cleaning, approved industrial vacuum cleaners are recommended, dust class:

Collect in closed and suitable containers for disposal.

**Other information**

Cover drains. Collect spillage.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas.

Pressurised container: May burst if heated.

Do not expose to temperatures above 50 °C.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.  
When using do not eat, drink or smoke.  
Wash hands before breaks and after work.

**Further information on handling**

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Take off contaminated clothing. Do not use for products which come into contact with the food stuffs. Keep away from food, drink and animal feedingstuffs.

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

Ensure adequate ventilation of the storage area.  
Protect from temperatures above 50 °C and direct sunlight.  
Keep away from heat sources.

**Hints on joint storage**

no classification

**Further information on storage conditions**

Only use containers specifically approved for the substance/product. Keep/Store only in original container.  
Keep container tightly closed in a cool place.

**7.3. Specific end use(s)**

Auxiliary for dental technology

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
-	Kohlenwasserstoffe, C5-C7 n-Alkane, Isoalkane, <5% n-Hexan			
Worker DNEL,		dermal	systemic	210 mg/kg bw/day

**Additional advice on limit values**

short-term occupational exposure limit value Total dust emission value may not be exceeded (see number 5.2.1).  
at long-term exposure: appraisal period of 8 h calculated.

**8.2. Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area

should be ventilated by technical means.

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

Avoid spilling and spraying. Tightly sealed safety glasses. goggles

**Hand protection**

Recommended material: NR (natural rubber, Natural latex) NR (natural rubber, Natural latex) Wear protective gloves. Thickness of the glove material > 0,4 mm.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

Take recovery periods for skin regeneration. Protect skin by using skin protective cream.

Wash hands thoroughly after handling.

**Skin protection**

Lab coat.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Particle filter device (EN 143) Use only outdoors.

Use only in well-ventilated areas.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	gaseous
Colour:	colourless
Odour:	solvent-like

**Changes in the physical state**

Melting point/freezing point:	Not applicable, as aerosol.
Boiling point or initial boiling point and boiling range:	not determined
Softening point:	not applicable
Flash point:	Not applicable, as aerosol.

**Flammability**

Solid/liquid:	not determined
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**Explosive properties**

When heating up, formation of potentially explosive steam / air mixtures.

Lower explosion limits:	1 vol. %
Upper explosion limits:	15 vol. %
Auto-ignition temperature:	260 °C

**Self-ignition temperature**

Solid:	Product is not selfigniting.
Gas:	---

Decomposition temperature:	not determined
Viscosity / dynamic: (at - °C)	not relevant
Viscosity / kinematic:	not relevant

Water solubility: (at 20 °C)	The study does not need to be conducted because the substance is known to be insoluble in water.
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Partition coefficient n-octanol/water:	not determined
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Vapour pressure: (at 20 °C)	4000 hPa
Vapour pressure: (at 50 °C)	7000 hPa
Density (at 20 °C):	0,61 g/cm <sup>3</sup>
Relative vapour density:	not determined

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties  
Not oxidising.**Other safety characteristics**Solvent content: Organic solvents: 93,7 %  
Maximum VOC content: - %

Evaporation rate: not determined

**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

Conditions for safe storage, including any incompatibilities See section Conditions to avoid + Incompatible materials

**10.2. Chemical stability**

See section Conditions to avoid

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**Do not spray on an open flame or other ignition source. Keep away from heat.  
Protect from sunlight.**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

The mixture is chemically stable under recommended conditions of storage, use and temperature. No known hazardous decomposition products. Hazardous combustion products See section 5.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

The statement is derived from the properties of the single components. For the following components the summation method is not applicable when classification is calculated: No information available for acute dermal and inhalative toxicity

**Irritation and corrosivity**

Causes skin irritation.

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

**Sensitising 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.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

 Based on available data, the classification criteria are not met.  
 May cause drowsiness or dizziness.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

Toxicological analyses are not available.

**Additional information on tests**

Overall assessment on CMR properties

No indications of human germ cell mutagenicity exist. No indication of human carcinogenicity. No indications of human reproductive toxicity exist.

**Practical experience**

No special references.

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

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

**Other information**

No special precautionary measures.

**SECTION 12: Ecological information**
**12.1. Toxicity**

Harmful to aquatic life.

Water hazard class hazardous to water (WGK 2)

Aquatic toxicity:

May cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
-	Kohlenwasserstoffe, C5-C7 n-Alkane, Isoalkane, <5% n-Hexan					
	Acute crustacea toxicity	EC50	2,7 mg/l	48 h	Product-type 16: Molluscicides, vermicides and products to control other invertebrates	

**12.2. Persistence and degradability**

none Evidence exists for biodegradation processes.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
75-28-5	isobutane	2,8

**12.4. Mobility in soil**

Respective data are not available.

**12.5. Results of PBT and vPvB assessment**



The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.  
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. 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.  
No information available.

## 12.7. Other adverse effects

No effects known.

## Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not empty into drains. Avoid release to the environment. Refer to special instructions/Safety data sheets.  
This material and its container must be disposed of as hazardous waste. Consult the appropriate local waste disposal expert about waste disposal.  
Dispose according to legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

#### Contaminated packaging

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**14.6. Special precautions for user**

Warning: Aerosols

**14.7. Maritime transport in bulk according to IMO instruments**

No special precautionary measures.

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

**Restrictions on use (REACH, annex XVII):**

Entry 28, Entry 40

2010/75/EU (VOC): 81 % (494,1 g/l)

2004/42/EC (VOC): 81 % (494,1 g/l)

Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS

(SEVESO III):

Additional information: P3a

**Additional information**

The product is classified and labelled according to EC directives or corresponding national laws.

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

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

Betriebssicherheitsverordnung (BetrSichV) ---

No further data.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

\* Data changed compared with the previous version.

**Abbreviations and acronyms**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Aquatic Chronic 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Bioconcentration factor (BCF)

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

CLP: Classification, Labelling and Packaging

Chemical oxygen demand (COD)

DMEL: Derived Minimum Effect Level

DNEL: Derived No-Effect Level (REACH)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

Flam. Gas. 1: Flammable gases, Hazard Category 1

Flam. Liq. 3: Flammable liquids, Hazard Category 3

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

"IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)"

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

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

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration (REACH)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

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

SVHC: Substances of Very High Concern

TRGS: Technical rules for hazardous substances

VOC: Volatile Organic Compounds (USA, EU)

vPvB: very Persistent and very Bioaccumulative

**Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Separating Agent	-	20	0	0	4	-	-	106-97-8

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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