

**519L5 - Silicone Parting Agent
Spray**

Material number 519L 5

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1 Identification**Product identifier**

Trade name: 519L5 - Silicone Parting Agent Spray

Other means of identificationThis safety data sheet pertains to the following products:
519L5 = Silikon-Trennmittel**Recommended use and restrictions on use**General use: Release agent and lubricating agent, for orthopedic procedures.
Reserved for industrial and professional use.**Initial supplier identifier**

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Additional information:

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Germany**Emergency telephone number****COLLECT, Telephone: (613) 996-6666****Transport:****CONSULTANK Lutz Harder GmbH (Contract QUALI003)****Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)****2 Hazard identification****Classification**

Flammable Aerosol 1 Extremely flammable aerosol.

Compressed Gas Contains gas under pressure; may explode if heated.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
 Contains gas under pressure; may explode if heated.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not spray on an open flame or other ignition source.
 Do not pierce or burn, even after use.
 Protect from sunlight. Store in a well-ventilated place.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Other hazards known to the supplier with respect to the product

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.
 Propellant:
 Contact with the product can cause cold burns or frostbite.
 Heating will lead to pressure increase: danger of bursting and explosion. vapours may form explosive mixtures with air.

3 Composition/Information on ingredients

Mixture

Chemical name: Preparation with Polydimethylsiloxane and propellant.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 106-97-8	n-Butane, <0,1% 1,3-Butadiene	>= 50 %	Flammable Gas 1. Liquefied Gas.
CAS 74-98-6	Propane	5 - 10 %	Flammable Gas 1A. Compressed Gas.

The actual concentration or concentration range is withheld as a trade secret.

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand.

In case of inhalation: Move victim to fresh air. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.
 Seek medical aid in case of troubles.

In case of skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse.
Cover frostbitten skin with sterile tissue.
Seek medical aid in case of troubles.

In case of eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Most important symptoms and effects, whether acute or delayed

Inhalation causes narcotic effects/intoxication.
In case of prolonged exposure: Nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness.
In case of high vapour concentrations: CNS disorders, unconsciousness.
Even short-term inhalation of larger quantities of gas may cause death. Risk of suffocation!

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:
Water spray jet, foam, carbon dioxide

Unsuitable extinguishing media:
Full water jet

Specific hazards arising from the product

Extremely flammable aerosol. vapours form explosive mixtures with air.
In case of fire may be liberated: silicon dioxide, carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus.

Additional information: Heating causes rise in pressure with risk of bursting.
Fight fire from a safe distance.
Cool endangered containers with water spray and, if possible, remove from danger zone.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.
Do not breathe vapour/aerosol. Avoid contact with skin and eyes.
Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits.
Gas/vapour is heavier than air and can accumulate in closed spaces, particularly on the ground/in lower lying areas.
Suppress gases/vapours/mists with water spray jet.

Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).
Special danger of slipping by leaking/spilling product.
Clean contaminated area with soap and water.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Do not spray in the eyes.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep container dry.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store containers in upright position.

Hints on joint storage:

Keep away from combustible material. Keep away from combustible materials.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
106-97-8	n-Butane, <0,1% 1,3-Butadiene	Canada: Alberta, OEL 8 hour	1,000 ppm
		Canada: BC, OEL STEL	1,000 ppm
		Canada: Québec, VEMP	1,900 mg/m ³ ; 800 ppm
74-98-6	Propane	Canada: Alberta, OEL 8 hour	1,000 ppm

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.
Explosion protection required.

Individual protection measures, such as personal protective equipment

- Respiratory protection:** Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection:** Recommendation: Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: butyl caoutchouc (butyl rubber) - Breakthrough time: 480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection:** Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Body protection:** Flame retardant, antistatic and chemical resistant protective clothing.
- General hygiene considerations:**
- Do not spray on an open flame or other ignition source. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Do not pierce or burn, even after use. Provide adequate ventilation, and local exhaust as needed.
 - Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing.
 - Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
 - Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: Aerosol colourless
Odour:	weak
Odour threshold:	No data available
Melting point and freezing point:	> -138 °C (n-Butane)
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 1.50 Vol-% UEL (Upper Explosive Limit): 10.00 Vol-%
Flash point/flash point range:	-60 °C (n-Butane)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	> 250 °C (Polydimethylsiloxane)
pH:	No data available
Water solubility:	at 20 °C: practically insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 2,700 hPa at 50 °C: 7,300 hPa
Density and/or relative density	at 20 °C: 0.6 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Ignition temperature:	365 °C (n-Butane)
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10 Stability and reactivity

Reactivity:	Extremely flammable aerosol. vapours may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Pressurised container: May burst if heated.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Incompatible materials:	Reacts violently with strong oxidizing agents. (Danger of explosion)

Hazardous decomposition products:

For the silicone component:

Measurements taken at temperatures exceeding 150 °C have revealed that a small quantity of formaldehyde splits off through oxidative decomposition.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Lack of data.

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

Not an irritant (Rabbit; ext. test report)

Serious eye damage/irritation: Based on available data, the classification criteria are not met. Mild irritant (Rabbit; ext. test report)

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Not sensitising (Method Magnusson-Klingmann, Guinea pig - ext. test report)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

No mutagenity, after different in-vitro studies. (OECD 471)

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

Rat, oral, NOAEL: ≥ 1000 mg/kg (Polydimethylsiloxane)

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

Rabbit, oral, NOAEL: ≥ 1000 mg/kg (Polydimethylsiloxane)

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Acute toxicity:

LD50 Rat, oral: $> 5,000$ mg/kg (Literature)

LD50 Rat, dermal: $> 2,008$ mg/kg (ext. test report)

Symptoms

In case of inhalation:

Information about n-Butane: Inhalation causes narcotic effects/intoxication.

In case of prolonged exposure: Nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness.

In case of high vapour concentrations: CNS disorders, unconsciousness.

Even short-term inhalation of larger quantities of gas may cause death. Risk of suffocation!

After contact with skin:

In case of spraying: Contact with the product can cause cold burns or frostbite.

12 Ecological information

Ecotoxicity

Aquatic toxicity: Based on previous experience, toxicity to fish is not expected.

Effects in sewage plants: According to current data, no harmful effects are expected with release to sewage treatment facility.

Persistence and degradability

Further details: For the silicone component:
Product is not biodegradable. Polydimethylsiloxanes are to a certain extent partly degradable through abiotic processes.

Bioaccumulative potential

Partition coefficient — n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.
Do not open with force or incinerate, even when empty.
Do not dispose of with household waste.

Package

Recommendation: Empty carefully and completely, if possible.
Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.
Handle empty containers with care. Incineration may cause explosion.

14 Transport information

UN number

TDG: UN1950
IMDG, IATA-DGR: UN 1950

UN proper shipping name

TDG, IMDG: UN 1950, AEROSOLS
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

Transport hazard class

TDG: 2.1 (6.1)
IMDG: Class 2, Subrisk -, see SP63
IATA-DGR: Class 2.1

Packing group

TDG, IATA-DGR: not applicable
IMDG: -

Environmental hazards

Marine pollutant: no



Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 80
Explosive limit and limited quantity index: 0.125 L
Passenger carrying road or rail index: 75 L

Sea transport (IMDG)

EmS: F-D, S-U
Special Provisions: 63 190 277 327 344 381 959
Limited quantities: See SP277
Excepted quantities: E0
Package - Instructions: P207, LP200
Package - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: no
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 1950, AEROSOLS, FLAMMABLE
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L

15 Regulatory information

National regulations - Canada

n-Butane, <0,1% 1,3-Butadiene: DSL: listed

Propane: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025

Date of first version: 18/6/2018

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022
General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

Abbreviations and acronyms:

AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
CNS: Central Nervous System
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DSL: Domestic Substances List
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Flammable Gas: Flammable gases
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.